

premode cleaner - via CDS

{ifo}:PSL-PMC_TF_IN_ON	enables summation of TEST2 input	DAC_2_1	
{ifo}:PSL-PMC_LOCK_ON	turns lock automation on	DAC_2_2	
{ifo}:PSL-PMC_RAMP_ON	turns ramp on	DAC_2_3	
{ifo}:PSL-PMC_GAIN	set gain of control loop	DAC_2_8	dB
{ifo}:PSL-PMC_REF	sets threshold which lock acquisition automation assumes PMC is locked	DAC_2_9	V
{ifo}:PSL-PMC_INOFFSET	correction of electronic offset in control loop	DAC_2_10	V
{ifo}:PSL-PMC_HEATER	set offset of heater and hence operation point of PMC temp. loop	DAC_2_11	V
{ifo}:PSL-PMC_BLANKING	opens feedback loop	DAC_2_4	
{ifo}:PSL-PMC_BOOST	activates integrator in control loop	DAC_2_5	
{ifo}:PSL-PMC_TF_IN	summation point for calibration lines, used for alignment ramp	DAC_2_6	
{ifo}:PSL-PMC_RAMP	not used (would be ramp input in case digital lock acquisition is used)	DAC_2_7	V
{ifo}:PSL-PMC_HV_MON	monitor of HV signal send to PZT actuator of PMC	ADC_2_4	V
{ifo}:PSL-PMC_MIXER	error signal of control loop	ADC_2_5	V
{ifo}:PSL-PMC_LO_POWER_MON	power of local oscillator used in demodulation electronic	ADC_2_6	dBm
{ifo}:PSL-PMC_TRIGGER	DC signal of locking diode, used by autolock to determine if PMC is resonant	ADC_2_7	V
{ifo}:PSL-PMC_TF_B	test point for transfer function measurement	ADC_2_0	V
{ifo}:PSL-PMC_TEMP	temperature sensor on PMC	ADC_2_1	K
{ifo}:PSL-PMC_TF_A	test point for transferfunction measurement	ADC_2_2	V
{ifo}:PSL-PMC_RESONANT_MON	binary signals, 1 if auto lock thinks PMC is resonant	ADC_2_3	

power stabilization - via CDS

{ifo}:PSL-ISS_AOM	ISS actuator signal send to AOM	ADC_0_8	V
{ifo}:PSL-ISS_QPDDX	quadrant photodiode dx signal	ADC_0_9	mm
{ifo}:PSL-ISS_QPDDY	quadrant photodiode dy signal	ADC_0_10	mm
{ifo}:PSL-ISS_REFSIGNAL	reference to which the ISS stabilizes the power	DAC_0_0	V
{ifo}:PSL-ISS_TRANSFER1_INJ	summation into error point	DAC_0_1	V
{ifo}:PSL-ISS_TRANSFER2_INJ	summation into outer-loop signal	DAC_0_2	V
{ifo}:PSL-ISS_GAIN	ISS control loop gain	DAC_0_3	dB
{ifo}:PSL-ISS_CTRL_OFFSET	offset added to control signal to enable AOM to increase power	DAC_0_4	V
{ifo}:PSL-ISS_INLOOP_PD_SELECT	selects if photodiode A of B is used as in-loop sensor	DAC_0_5	V
{ifo}:PSL-ISS_SECONDLOOP_CLOSED	switch to open/close second ISS feedback loop	DAC_0_6	V
{ifo}:PSL-ISS_LOOP_STATE	switch to open/close feedback loop	DAC_0_7	V
{ifo}:PSL-ISS_PDAMON	monitor signal of photodiode A, (at output of signal conditioning filter)	ADC_0_0	V
{ifo}:PSL-ISS_PDBMON	monitor signal of photodiode B, (at output of signal conditioning filter)	ADC_0_1	V
{ifo}:PSL-ISS_OUTERPDMON	monitor signal of second loop photodiode	ADC_0_2	V
{ifo}:PSL-ISS_REFSIGNALOUT	low pass filtered readback of ref. signal	ADC_0_3	V
{ifo}:PSL-ISS_TRANSFER1A	signal in front of summation point	ADC_0_4	V
{ifo}:PSL-ISS_TRANSFER1B	signal behind summation point	ADC_0_5	V
{ifo}:PSL-ISS_TRANSFER2A	signal in front of summation point in second loop	ADC_0_6	V
{ifo}:PSL-ISS_TRANSFER2B	signal behind summation point in second loop	ADC_0_7	V

frequency stabilization - via CDS

{ifo}:PSL-FSS_MIXER	FSS loop errorpoint	ADC_1_0	V
{ifo}:PSL-FSS_IN1	LEMO input IN1 at TTFSS fieldbox	ADC_1_1	V
{ifo}:PSL-FSS_FAST_MON	monitor of NPRO PZT signal	ADC_1_2	V
{ifo}:PSL-FSS_PC_MON	monitor of signal to phase correcting pockels cell	ADC_1_3	V
{ifo}:PSL-FSS_LO_POWER_MON	strength of local oscillator signal	ADC_1_4	dBm
{ifo}:PSL-FSS_TEST2_MON	LEMO input TEST2 at TTFSS fieldbox	ADC_1_5	V
{ifo}:PSL-FSS_RFPD_DC	DC signal of photodiode in reflection of reference cavity	ADC_1_6	V
{ifo}:PSL-FSS_TPD_DC	DC signal of photodiode in transmission of reference cavity	ADC_1_7	V
{ifo}:PSL-FSS_COMMON_GAIN	common gain	DAC_1_0	dB
{ifo}:PSL-FSS_MIXER_OFS	signal to be added into error point	DAC_1_1	V
{ifo}:PSL-FSS_FAST_GAIN	fast path gain (NPRO PZT)	DAC_1_2	dB
{ifo}:PSL-FSS_FAST_RAMP_INJECTION	signal given to the SLOW BNC output of TTFSS (connected to RAMP IN)	DAC_1_3	V
{ifo}:PSL-FSS_TEST1_ON	enables BNC TEST1 IN (summation at output of MIXER (at input of LP filter)	DAC_1_4	V
{ifo}:PSL-FSS_TEST2_ON	enables BNC TEST2 IN (summation at error point, at output of MIXER LP filter)	DAC_1_5	V
{ifo}:PSL-FSS_LOOP_CLOSED	open/close control loop after error point and in front of ramp injection in fast path	DAC_1_6	V
{ifo}:PSL-FSS_NPRO_TEMP	signal to LEMO TEMP at TTFSS FB	DAC_1_7	°C (offset)
{ifo}:PSL-FSS_VCO_POWER_MON	VCO power monitor	ADC_1_8	dBm
{ifo}:PSL-FSS_VCO_MODLEVEL	sets the level of the rf-signal send from the VCO to the FSS-AOM	DAC_1_12	????
{ifo}:PSL-FSS_VCO_TEST_ON	enables the TEST input (BNC at VCO box)	DAC_1_13	
{ifo}:PSL-FSS_WIDE_ON	enables the WIDE input (BNC at VCO box, wideband actuator signal from MC loop)	DAC_1_14	

diagnostic breadboard - via CDS

{ifo}:PSL-DBB_QPD1_QX	quadrant photodiode 1 dx -DC	ADC_3_0	V
{ifo}:PSL-DBB_QPD1_QY	quadrant photodiode 1 dy -DC	ADC_3_1	V
{ifo}:PSL-DBB_QPD1_QS	quadrant photodiode 1 sum -DC	ADC_3_2	V
{ifo}:PSL-DBB_QPD2_QX	quadrant photodiode 1 dx -DC	ADC_0_3	V
{ifo}:PSL-DBB_QPD2_QY	quadrant photodiode 1 dy -DC	ADC_3_4	V
{ifo}:PSL-DBB_QPD2_QS	quadrant photodiode 1 sum -DC	ADC_3_5	V
{ifo}:PSL-DBB_RPD_DC	power noise sensing photodiode DC	ADC_3_6	V
{ifo}:PSL-DBB_TPD_0DB	photodiode in transmission of cavity (not amplified)	ADC_3_7	V
{ifo}:PSL-DBB_QPD1_DX	quadrant photodiode 1 dx - demodulated	ADC_3_8	V
{ifo}:PSL-DBB_QPD1_DY	quadrant photodiode 1 dy - demodulated	ADC_3_9	V
{ifo}:PSL-DBB_QPD_DS	quadrant photodiode 1 sum - demodulated	ADC_3_10	V
{ifo}:PSL-DBB_QPD2_DX	quadrant photodiode 1 dx - demodulated	ADC_0_11	V
{ifo}:PSL-DBB_QPD2_DY	quadrant photodiode 1 dy - demodulated	ADC_3_12	V
{ifo}:PSL-DBB_PZTMON	actuator signal of locking loop with signal conditioning	ADC_3_13	V
{ifo}:PSL-DBB_HVMON	actuator signal of locking loop	ADC_3_14	V
{ifo}:PSL-DBB_RPD_AC	power noise sensing photodiode AC	ADC_3_15	V
{ifo}:PSL-DBB_TPD_40DB	photodiode in transmission of cavity (40dB gain output)	ADC_3_16	V
{ifo}:PSL-DBB_TPD_80DB	photodiode in transmission of cavity (80db gain output)	ADC_3_17	V
{ifo}:PSL-DBB_SHUTTER_REQ	close shutter request	ADC_3_18	V
{ifo}:PSL-DBB_AUX_INPUT1	auxiliary input 1	ADC_0_19	V
{ifo}:PSL-DBB_AUX_INPUT2	auxiliary input 2	ADC_3_20	V
{ifo}:PSL-DBB_AUX_INPUT3	auxiliary input 3	ADC_3_21	V
{ifo}:PSL-DBB_AUX_INPUT4	auxiliary input 4	ADC_3_22	V
{ifo}:PSL-DBB_RMT_READBACK	indicates if remote operation is enabled	ADC_3_23	V
{ifo}:PSL-DBB_CTRL0	control signal length control	DAC_3_0	V
{ifo}:PSL-DBB_CTRL1X	control signal alignment control	DAC_3_1	V
{ifo}:PSL-DBB_CTRL1Y	control signal alignment control	DAC_3_2	V
{ifo}:PSL-DBB_CTRL2X	control signal alignment control	DAC_0_3	V
{ifo}:PSL-DBB_CTRL2Y	control signal alignment control	DAC_3_4	V

{ifo}:PSL-DBB_PHASE	demodulation phase	DAC_3_5	deg
{ifo}:PSL-DBB_LENS1	actuates mode matching lens 1	DAC_3_6	mm
{ifo}:PSL-DBB_LENS2	actuates mode matching lens 2	DAC_3_7	mm
{ifo}:PSL-DBB_LENS-LATCH	holds lenses in current position	DAC_3_8	
{ifo}:PSL-DBB_SHUTTER_DBB	shutter state	DAC_3_9	
{ifo}:PSL-DBB_RMT	remote operation is requested	DAC_3_10	
{ifo}:PSL-DBB_MDOFF	indicates if modulation is enabled	DAC_0_11	
{ifo}:PSL-DBB_SCANMODE	switch between scan- and lockmode	DAC_3_12	
{ifo}:PSL-DBB_SHUTTER_MULTIPLEX	select shutter in FE or HPO path	DAC_3_13	
{ifo}:PSL-DBB_FILTER_SWITCH1		DAC_3_14	
{ifo}:PSL-DBB_FILTER_SWITCH2		DAC_3_15	

injection locking/power/miscellaneous - via CDS

{ifo}:PSL-ILS_HV_MON	monitor of HV signal send to PZT actuator of ILS	ADC_2_12	V
{ifo}:PSL-ILS_MIXER	error signal of injection locking control loop	ADC_2_13	V
{ifo}:PSL-ILS_LO_POWER_MON	power of local oscillator used in demodulation electronic	ADC_2_14	dBm
{ifo}:PSL-ILS_TRIGGER	DC signal of locking diode, used by autolock to determine if HPL is resonant	ADC_2_15	V
{ifo}:PSL-ILS_TF_B	test point for transfer function measurement	ADC_2_8	V
{ifo}:PSL-ILS_TF_A	test point for transfer function measurement	ADC_2_10	V
{ifo}:PSL-ILS_RESONANT_ON	binary signals, 1 if auto lock thinks PMC is resonant	ADC_2_11	
{ifo}:PSL-OSC_PDAMP_DC	monitoring photodiode in HPL: signal from front-end at output of Faraday Isolator	ADC_2_16	V
{ifo}:PSL-OSC_PDISO_DC	monitoring photodiode in HPL: power in reverse direction split of at FI	ADC_2_17	V
{ifo}:PSL-OSC_PDBP_DC	monitoring photodiode in HPL: reflection at Brewster Plate in HPL oscillator	ADC_2_18	V
{ifo}:PSL-OSC_PDINT_DC	monitoring photodiode in HPL: circulating light power in HPL oscillator	ADC_2_19	V
{ifo}:PSL-OSC_PDAMP_AC	monitoring photodiode in HPL: signal from front-end at output of Faraday Isolator	ADC_2_20	V
{ifo}:PSL-OSC_PDISO_AC	monitoring photodiode in HPL: power in reverse direction split of at FI	ADC_2_21	V
{ifo}:PSL-OSC_PDBP_AC	monitoring photodiode in HPL: reflection at Brewster Plate in HPL oscillator	ADC_2_22	V
{ifo}:PSL-OSC_PDINT_AC	monitoring photodiode in HPL: circulating light power in HPL oscillator	ADC_2_23	V
{ifo}:PSL-PWR_PMC_REFL	power in reflection of PMC (power meter used for installation and maintenance)	ADC_2_24	W
{ifo}:PSL-PWR_PMC_TRANS	power in transmission of PMC (power meter used for installation and maintenance)	ADC_2_25	W
{ifo}:PSL-PWR_HPL_DC	monitor photodiode (PD001) at output of HPL, main HPL power monitor	ADC_2_26	W
{ifo}:PSL-PWR_HPL_AC	monitor photodiode (PD001) at output of HPL, main HPL power monitor	ADC_2_27	V
{ifo}:PSL-PWR_NPRO	monitor photodiode at input of 35W amplifier: senses NPRO power	ADC_2_29	W
{ifo}:PSL-MIS_FLOW	used to detect too low water flow through beam dumps and power meters	ADC_2_28	
{ifo}:PSL-MIS_NPRO_RRO	binary signal for NPRO rf- power (in band around relaxation oscillation frequency)	ADC_2_30	
{ifo}:PSL-MIS_SPARE			0

35W front end - via EPICS-OPC connection from PSL-BECKHOFF system

{ifo}:PSL-AMP_DBHTSNKOVRTMP	Amp. Heatsink Temperature Error	Beckhoff	
{ifo}:PSL-AMP_DTEMPERR	Amp. Diode Temperature Error	Beckhoff	
{ifo}:PSL-AMP_ENABLEPWRDOG	Amp. Enable Power Watchdog (>15% deviation)	Beckhoff	
{ifo}:PSL-AMP_ERR	Amp. Error state positive	Beckhoff	
{ifo}:PSL-AMP_LIDCLOSED	Amp. Lid Closed	Beckhoff	
{ifo}:PSL-AMP_LIDERR	Amp. Lid opened without Lid override active	Beckhoff	
{ifo}:PSL-AMP_MANUALMODE	Amp. Manual Mode (enables individual control of NPRO and amplifier currents)	Beckhoff	
{ifo}:PSL-AMP_NPROOK	Amp. NPRO Running (from NPRO internal diagnostic)	Beckhoff	
{ifo}:PSL-AMP_LIDERR_OVR	Amp. Lid Interlock Override active	Beckhoff	
{ifo}:PSL-AMP_WATCHDOG	Amp. Power Watchdog triggered	Beckhoff	
{ifo}:PSL-AMP_SHUTTERCLSD	Amp. Shutter Closed INPUT signal	Beckhoff	
{ifo}:PSL-AMP_SHUTTEROPEN	Amp. Shutter Open INPUT Signal	Beckhoff	
{ifo}:PSL-AMP_SYSTEMOK	Amp. System in automatic mode - Running	Beckhoff	
{ifo}:PSL-AMP_WARN	Amp. Warning NPRO or water flow	Beckhoff	
{ifo}:PSL-AMP_LOWFLOW	Amp. Water Flow Warning (< x l/min)	Beckhoff	
{ifo}:PSL-AMP_FLOWERR	Amp. Water Flow Error (< x l/min)	Beckhoff	
{ifo}:PSL-AMP_XTALOVRTMP	Amp. crystal temperature error	Beckhoff	
{ifo}:PSL-AMP_LIDCOUNT	Amp. Lid # of opening	Beckhoff	
{ifo}:PSL-AMP_HRS	Amp. # of operation hours	Beckhoff	hours
{ifo}:PSL-AMP_DBHTSNKTEMP	Amp. Heatsink Temperature	Beckhoff	deg C
{ifo}:PSL-AMP_DCUR1	Amp. Diode current (Diode 1+2)	Beckhoff	A
{ifo}:PSL-AMP_DCUR2	Amp. Diode current (Diode 3+4)	Beckhoff	A
{ifo}:PSL-AMP_DCURSET1	Amp. Diode current set point (Diode 1+2)	Beckhoff	A
{ifo}:PSL-AMP_DCURSET2	Amp. Diode current set point (Diode 3+4)	Beckhoff	A
{ifo}:PSL-AMP_D1PWR	Amp. Diode power (internal monitor diode)	Beckhoff	W
{ifo}:PSL-AMP_D2PWR	Amp. Diode power (internal monitor diode)	Beckhoff	W
{ifo}:PSL-AMP_D3PWR	Amp. Diode power (internal monitor diode)	Beckhoff	W
{ifo}:PSL-AMP_D4PWR	Amp. Diode power (internal monitor diode)	Beckhoff	W
{ifo}:PSL-AMP_D1TEMP	Amp. Diode temperature	Beckhoff	deg C
{ifo}:PSL-AMP_D2TEMP	Amp. Diode temperature	Beckhoff	deg C
{ifo}:PSL-AMP_D3TEMP	Amp. Diode temperature	Beckhoff	deg C
{ifo}:PSL-AMP_D4TEMP	Amp. Diode temperature	Beckhoff	deg C
{ifo}:PSL-AMP_D1TEC	Amp. Diode temp. control signal	Beckhoff	
{ifo}:PSL-AMP_D2TEC	Amp. Diode temp. control signal	Beckhoff	
{ifo}:PSL-AMP_D3TEC	Amp. Diode temp. control signal	Beckhoff	
{ifo}:PSL-AMP_D4TEC	Amp. Diode temp. control signal	Beckhoff	
{ifo}:PSL-AMP_D1TEMPSET	Amp. Diode temp. set point	Beckhoff	deg C
{ifo}:PSL-AMP_D2TEMPSET	Amp. Diode temp. set point	Beckhoff	deg C
{ifo}:PSL-AMP_D3TEMPSET	Amp. Diode temp. set point	Beckhoff	deg C
{ifo}:PSL-AMP_D4TEMPSET	Amp. Diode temp. set point	Beckhoff	deg C
{ifo}:PSL-AMP_DVOLT1	Amp. Diode voltage (Diode 1+2)	Beckhoff	V
{ifo}:PSL-AMP_DVOLT2	Amp. Diode voltage (Diode 3+4)	Beckhoff	V
{ifo}:PSL-AMP_PWR1	Amp. power monitor (behind stage 1)	Beckhoff	W
{ifo}:PSL-AMP_PWR2	Amp. power monitor (behind stage 2)	Beckhoff	W
{ifo}:PSL-AMP_PWR3	Amp. power monitor (behind stage 3)	Beckhoff	W
{ifo}:PSL-AMP_FLOW	Amp. cooling water flow rate	Beckhoff	lpm
{ifo}:PSL-AMP_XTALTEMP	Amp. crystal temperature	Beckhoff	deg C
{ifo}:PSL-NPRO_TEMP_GUARD	NPRO Temperature Error	Beckhoff	K
{ifo}:PSL-NPRO_HRS	NPRO operation hours	Beckhoff	hours
{ifo}:PSL-NPRO_D1PWR	NPRO LD1 power monitor, sensed	Beckhoff	W
{ifo}:PSL-NPRO_D2PWR	NPRO LD2 power monitor, sensed	Beckhoff	W
{ifo}:PSL-NPRO_D1TEMPERR	NPRO LD1 Temperatures , error signal	Beckhoff	K
{ifo}:PSL-NPRO_D2TEMPERR	NPRO LD2 Temperatures , error signal	Beckhoff	K
{ifo}:PSL-NPRO_NEMON	NPRO Noise Eater monitor (NE DC signal)	Beckhoff	mA
{ifo}:PSL-NPRO_XTALTEMPERR	NPRO Xtal Temperature, error signal	Beckhoff	K
{ifo}:PSL-NPRO_D1TEMPSET	NPRO LD1 Temperatures, set	Beckhoff	deg C
{ifo}:PSL-NPRO_D2TEMPSET	NPRO LD2 Temperatures, set	Beckhoff	deg C
{ifo}:PSL-NPRO_D1TEMP	NPRO LD Temperatures, sensed	Beckhoff	deg C
{ifo}:PSL-NPRO_D2TEMP	NPRO LD Temperatures, sensed	Beckhoff	deg C
{ifo}:PSL-NPRO_XTALTEMPSET	NPRO Xtal Temperature, set	Beckhoff	deg C
{ifo}:PSL-NPRO_XTALTEMP	NPRO Xtal Temperature, sensed	Beckhoff	deg C

{fo}:PSL-NPRO_CURSET	NPRO LD current, set	Beckhoff	A
{fo}:PSL-NPRO_CUR	NPRO LD current, sensed	Beckhoff	A
high power oscillator - via EPICS-OPC connection from PSL-BECKHOFF system			
{fo}:PSL-EPICSALARM	EPICS signal to close the high power laser shutter	Beckhoff	
{fo}:PSL-IL_DBTEMPGUARDS	hardware HPO laser diode temperature interlock	Beckhoff	
{fo}:PSL-IL_DCHILFLOW	hardware diode chiller flow interlock	Beckhoff	
{fo}:PSL-IL_DIODERMEMSTOP	hardware laser diode room interlock box safety button	Beckhoff	
{fo}:PSL-IL_DIODERMFACILITY	hardware laser diode room facility interlock	Beckhoff	
{fo}:PSL-IL_DIODERMKEYLOCK	hardware laser diode room, interlock-box key interlock	Beckhoff	
{fo}:PSL-IL_AMPTEMPGUARDS	hardware amplifier laser diode temperature interlock	Beckhoff	
{fo}:PSL-IL_LVEAEMSTOP	hardware laser area enclosure safety button interlock	Beckhoff	
{fo}:PSL-IL_LVEAFACILITY	hardware LVEA facility interlock	Beckhoff	
{fo}:PSL-IL_LVEAKEYLOCK	hardware LVEA control box key interlock	Beckhoff	
{fo}:PSL-IL_OK	no interlock	Beckhoff	
{fo}:PSL-IL_TECSTATUS	HPO laser diode temperature control power supplies on	Beckhoff	
{fo}:PSL-IL_TWINSAFEBERR	??? Not clear ???	Beckhoff	
{fo}:PSL-IL_XCHILFLOW	hardware crystal chiller flow interlock	Beckhoff	
{fo}:PSL-OSC_COUPLERSTATEERR	TwinCad interface error	Beckhoff	
{fo}:PSL-OSC_DCHILALARM	Alarm Diode Chiller	Beckhoff	
{fo}:PSL-OSC_LRARANGEWARN	LRA out of range	Beckhoff	
{fo}:PSL-OSC_DBHTSNKOVRTMP	OscDBHeatsinkOvertemp	Beckhoff	
{fo}:PSL-OSC_DTEMPERR	OscDiodeOvertemp	Beckhoff	
{fo}:PSL-OSC_LRAON	OscEnableLRA	Beckhoff	
{fo}:PSL-OSC_LOCKON	OscEnableLocking	Beckhoff	
{fo}:PSL-OSC_PWRDOGON	OscEnablePowerWatchdog	Beckhoff	
{fo}:PSL-OSC_FLOWDOGON	OscEnableFlowWatchdog	Beckhoff	
{fo}:PSL-OSC_RAMPON	OscEnableRamp (injection locking)	Beckhoff	
{fo}:PSL-OSC_SW2ON	??? Not longer used...?	Beckhoff	
{fo}:PSL-OSC_ERROR	OscError	Beckhoff	
{fo}:PSL-OSC_VBNOTALIVE	OscFiberSwitchVB not Alive	Beckhoff	
{fo}:PSL-OSC_HPSC LSD	OscHighPowerShutterClosed	Beckhoff	
{fo}:PSL-OSC_LIDCLSD	OscLidClosed	Beckhoff	
{fo}:PSL-OSC_LIDERR	OscLidError (were opened)	Beckhoff	
{fo}:PSL-OSC_LOCKED	OscLocked	Beckhoff	
{fo}:PSL-OSC_LPSC LSD	OscLowPowerShutterClosed	Beckhoff	
{fo}:PSL-OSC_LIDERR_OVR	OscOverrideLidInterlock	Beckhoff	
{fo}:PSL-OSC_PWRMETERLOWERR	OscPowermeterWaterFlowError	Beckhoff	
{fo}:PSL-OSC_PWRMETERLOWFLOW	OscPowermeterWaterFlowWarning	Beckhoff	
{fo}:PSL-OSC_WATCHDOG	OscPowerwatchdogError	Beckhoff	
{fo}:PSL-OSC_WARNING	OscWarning one other warnings active	Beckhoff	
{fo}:PSL-OSC_FLOWERR	OscWaterFlowError	Beckhoff	
{fo}:PSL-OSC_PRESS1ERR	OscPressure1MaxError	Beckhoff	
{fo}:PSL-OSC_LOWFLOW	OscWaterFlowWarning	Beckhoff	
{fo}:PSL-OSC_SERVICEMODE	OscServiceMode	Beckhoff	
{fo}:PSL-OSC_XCHILALARM	XChilAlarm	Beckhoff	
{fo}:PSL-OSC_DCHILHRS	DChilOpHrs	Beckhoff	
{fo}:PSL-OSC_DB1HRS	AdL-REF-OPC1.iOscDB1OpHrs	Beckhoff	hours
{fo}:PSL-OSC_DB2HRS	AdL-REF-OPC1.iOscDB2OpHrs	Beckhoff	hours
{fo}:PSL-OSC_DB3HRS	AdL-REF-OPC1.iOscDB3OpHrs	Beckhoff	hours
{fo}:PSL-OSC_DB4HRS	AdL-REF-OPC1.iOscDB4OpHrs	Beckhoff	hours
{fo}:PSL-OSC_LIDCOUNT	AdL-REF-OPC1.iOscLidCounter	Beckhoff	
{fo}:PSL-OSC_RELOCKCOUNT	AdL-REF-OPC1.iOscRelockCounter	Beckhoff	
{fo}:PSL-OSC_XCHILHRS	HPO crystal chiller operating hours	Beckhoff	hours
{fo}:PSL-OSC_DCHILCND	HPO diode chiller, water conductivity	Beckhoff	uS
{fo}:PSL-OSC_DCHILFLOW	HPO diode chiller, water flow	Beckhoff	lpm
{fo}:PSL-OSC_DCHILTEMP	HPO diode chiller, water temperature	Beckhoff	deg C
{fo}:PSL-OSC_DCHILTEMPSET	HPO diode chiller, water temperature, set value	Beckhoff	deg C
{fo}:PSL-OSC_LRAPOS	HPO position of long range actuator	Beckhoff	um
{fo}:PSL-OSC_LRAPZTVOLTMAX	HPO trigger LRA movement (upper boundary)	Beckhoff	V
{fo}:PSL-OSC_LRAPZTVOLTMIN	HPO trigger LRA movement (lower boundary)	Beckhoff	V
{fo}:PSL-OSC_LRARANGE	HPO set maximum range for LRA with respect to reference point	Beckhoff	um
{fo}:PSL-OSC_LRAREFFPOINT	HPO LRA reference point	Beckhoff	um
{fo}:PSL-OSC_LRASTEPSIZE	HPO LRA step size	Beckhoff	um
{fo}:PSL-OSC_BASEPL_REARLTEMP	HPO Base Plate Temperature, sensor 1	Beckhoff	deg C
{fo}:PSL-OSC_BASEPL_BASEPL_CENTTEMP	HPO Base Plate Temperature, sensor 2	Beckhoff	deg C
{fo}:PSL-OSC_BASEPL_REARRTEMP	HPO Base Plate Temperature, sensor 3	Beckhoff	deg C
{fo}:PSL-OSC_BASEPL_FRONTLTEMP	HPO Base Plate Temperature, sensor 4	Beckhoff	deg C
{fo}:PSL-OSC_BASEPL_FRONTRTMP	HPO Base Plate Temperature, sensor 5	Beckhoff	deg C
{fo}:PSL-OSC_DB1_CNTWAVELENGTH	HPO center wavelength of light from diode box 1	Beckhoff	nm
{fo}:PSL-OSC_DB2_CNTWAVELENGTH	HPO center wavelength of light from diode box 2	Beckhoff	nm
{fo}:PSL-OSC_DB3_CNTWAVELENGTH	HPO center wavelength of light from diode box 3	Beckhoff	nm
{fo}:PSL-OSC_DB4_CNTWAVELENGTH	HPO center wavelength of light from diode box 4	Beckhoff	nm
{fo}:PSL-OSC_DB1_FWHM	HPO full width half max. of light from diode box 1	Beckhoff	nm
{fo}:PSL-OSC_DB2_FWHM	HPO full width half max. of light from diode box 2	Beckhoff	nm
{fo}:PSL-OSC_DB3_FWHM	HPO full width half max. of light from diode box 3	Beckhoff	nm
{fo}:PSL-OSC_DB4_FWHM	HPO full width half max. of light from diode box 4	Beckhoff	nm
{fo}:PSL-OSC_DB1_SMOMENT	HPO first moment of spectral distribution of light from diode box 1	Beckhoff	
{fo}:PSL-OSC_DB2_SMOMENT	HPO first moment of spectral distribution of light from diode box 2	Beckhoff	
{fo}:PSL-OSC_DB3_SMOMENT	HPO first moment of spectral distribution of light from diode box 3	Beckhoff	
{fo}:PSL-OSC_DB4_SMOMENT	HPO first moment of spectral distribution of light from diode box 4	Beckhoff	
{fo}:PSL-OSC_DB1_FMOMENT	HPO second moment of spectral distribution of light from diode box 1	Beckhoff	
{fo}:PSL-OSC_DB2_FMOMENT	HPO second moment of spectral distribution of light from diode box 2	Beckhoff	
{fo}:PSL-OSC_DB3_FMOMENT	HPO second moment of spectral distribution of light from diode box 3	Beckhoff	
{fo}:PSL-OSC_DB4_FMOMENT	HPO second moment of spectral distribution of light from diode box 4	Beckhoff	
{fo}:PSL-OSC_DB1_HTSNK1TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB1_HTSNK2TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB2_HTSNK1TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB2_HTSNK2TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB3_HTSNK1TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB3_HTSNK2TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB4_HTSNK1TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB4_HTSNK2TEMP	HPO heat sink temperature diode box #, sensor #	Beckhoff	deg C
{fo}:PSL-OSC_DB1_PWR	HPO pump light monitor at laser head 1	Beckhoff	W
{fo}:PSL-OSC_DB2_PWR	HPO pump light monitor at laser head 2	Beckhoff	W
{fo}:PSL-OSC_DB3_PWR	HPO pump light monitor at laser head 3	Beckhoff	W
{fo}:PSL-OSC_DB4_PWR	HPO pump light monitor at laser head 4	Beckhoff	W
{fo}:PSL-OSC_DB1_SPEC PWR		Beckhoff	
{fo}:PSL-OSC_DB2_SPEC PWR		Beckhoff	
{fo}:PSL-OSC_DB3_SPEC PWR		Beckhoff	
{fo}:PSL-OSC_DB4_SPEC PWR		Beckhoff	
{fo}:PSL-OSC_DB1_WPD	HPO pump light monitor at laser head 1, percentage of initial power	Beckhoff	%
{fo}:PSL-OSC_DB2_WPD	HPO pump light monitor at laser head 2, percentage of initial power	Beckhoff	%

{ifo}:PSL-OSC_DB2_D4TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB2_D5TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB2_D6TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB2_D7TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D1TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D2TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D3TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D4TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D5TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D6TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB3_D7TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D1TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D2TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D3TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D4TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D5TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D6TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB4_D7TEMPSET	HPO diode temperature set point, diode box #, diode #	Beckhoff	deg C
{ifo}:PSL-OSC_DB1_VOLT	HPO supply voltage diode box #	Beckhoff	
{ifo}:PSL-OSC_DB2_VOLT	HPO supply voltage diode box #	Beckhoff	
{ifo}:PSL-OSC_DB3_VOLT	HPO supply voltage diode box #	Beckhoff	
{ifo}:PSL-OSC_DB4_VOLT	HPO supply voltage diode box #	Beckhoff	
{ifo}:PSL-OSC_DB1_D1WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB1_D2WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB1_D3WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB1_D4WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB1_D5WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB1_D6WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB1_D7WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D1WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D2WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D3WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D4WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D5WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D6WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB2_D7WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D1WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D2WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D3WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D4WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D5WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D6WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB3_D7WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D1WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D2WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D3WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D4WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D5WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D6WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_DB4_D7WPD	was ment to give the relative diode power of diode # in DB # (percentage), not used	Beckhoff	
{ifo}:PSL-OSC_BOXHUM	HPO humidity in HPO laser box	Beckhoff	%
{ifo}:PSL-OSC_FLOWDOGWINDOW	OSC flow window for the watchdog (0,2l/min)	Beckhoff	lpm
{ifo}:PSL-OSC_PRESS1MAX	OSC Water pressure max ()	Beckhoff	bar
{ifo}:PSL-OSC_HEAD1TEMP	HPO Laser Head Temperature, head #	Beckhoff	deg C
{ifo}:PSL-OSC_HEAD2TEMP	HPO Laser Head Temperature, head #	Beckhoff	deg C
{ifo}:PSL-OSC_HEAD3TEMP	HPO Laser Head Temperature, head #	Beckhoff	deg C
{ifo}:PSL-OSC_HEAD4TEMP	HPO Laser Head Temperature, head #	Beckhoff	deg C
{ifo}:PSL-OSC_HEAD1FLOW	HPO Laser Head water flow rate [l/min], head #	Beckhoff	lpm
{ifo}:PSL-OSC_HEAD2FLOW	HPO Laser Head water flow rate [l/min], head #	Beckhoff	lpm
{ifo}:PSL-OSC_HEAD3FLOW	HPO Laser Head water flow rate [l/min], head #	Beckhoff	lpm
{ifo}:PSL-OSC_HEAD4FLOW	HPO Laser Head water flow rate [l/min], head #	Beckhoff	lpm
{ifo}:PSL-OSC_PWR1	HPO Laser Power, backward direction	Beckhoff	W
{ifo}:PSL-OSC_PWR2	HPO Laser Power, forward direction (only valid if external shutter is closed)	Beckhoff	W
{ifo}:PSL-OSC_PWREXT	HPO reading of power meter externally connected	Beckhoff	W
{ifo}:PSL-OSC_PWR_SUM	HPO sum of all three power meter	Beckhoff	W
{ifo}:PSL-OSC_PDLOCKKDC_PWR	HPO reading of injection locking photo diode DC, calibrated in Watt	Beckhoff	W
{ifo}:PSL-OSC_LOCKGAIN	HPO loop gain of injection locking servo, set point	Beckhoff	V
{ifo}:PSL-OSC_LOCKOFFSET	HPO error point of injection locking servo, set point	Beckhoff	V
{ifo}:PSL-OSC_LOCKREF	HPO injection locking auto lock reference level, set point	Beckhoff	V
{ifo}:PSL-OSC_PDLOCKKDC	HPO reading of injection locking photo diode DC [Volt]	Beckhoff	V
{ifo}:PSL-OSC_PDLOCKKDC_MEAN	HPO reading of injection locking photo diode DC, 2s average	Beckhoff	V
{ifo}:PSL-OSC_PWRMETERFLOW	HPO water flow through laser internal aux. beam dumps and power meter	Beckhoff	lpm
{ifo}:PSL-OSC_PZTVOLT	HPO injection locking control signal	Beckhoff	V
{ifo}:PSL-OSC_BOXTEMP	HPO air temperature in HPO laser box	Beckhoff	deg C
{ifo}:PSL-OSC_PRESS1	HPO water pressure inlet at water manifold	Beckhoff	bar
{ifo}:PSL-OSC_PRESS2	HPO water pressure return at water manifold	Beckhoff	bar
{ifo}:PSL-OSC_XCHILCND	HPO crystal chiller, water conductivity	Beckhoff	uS
{ifo}:PSL-OSC_XCHILFLOW	HPO crystal chiller, water flow	Beckhoff	lpm
{ifo}:PSL-OSC_XCHILTEMP	HPO crystal chiller, water temperature	Beckhoff	deg C
{ifo}:PSL-OSC_XCHILTEMPSET	HPO crystal chiller, water temperature, set value	Beckhoff	deg C
{ifo}:PSL-OSC_USER	name of laser operator who put laser into service mode	Beckhoff	

derived channels (calculated and used in RT control modules and EPICS user screens)

{ifo}:PSL-FSS			
{ifo}:PSL-FSS_AUTOLOCK_DELAY	time in between different autolock states	software	
{ifo}:PSL-FSS_AUTOLOCK_ON	automatic lock request	software	
{ifo}:PSL-FSS_AUTOLOCK_STATE	autolock state	software	
{ifo}:PSL-FSS_COMMON_GAIN_CALI	common mode gain calibration	software	counts/dB
{ifo}:PSL-FSS_FAST_GAIN_CALI	fast gain calibration	software	counts/dB
{ifo}:PSL-FSS_GOOD_TEMP	NPRO temperature offset in the middle PZT ramp	software	deg C
{ifo}:PSL-FSS_LOOP_MODE	switch loop status (if autolock off)	software	
{ifo}:PSL-FSS_MIXER_OFS_CALI	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_AMP	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_CLKGAIN	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_COSGAIN	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_FREQ	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_LOWPASS	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_PHASE	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_OFS_MOD_SINGAIN	modulation-demodulation scheme to optimize the mixer offset	software	
{ifo}:PSL-FSS_MIXER_PP	Mixer peak-to-peak value	software	V
{ifo}:PSL-FSS_OSCILLATION	detects oscillation of loop	software	V
{ifo}:PSL-FSS_OSCILLATION_THRES	threshold for oscillation detection	software	V

{ifo}:PSL-FSS_PC_PP	Pockels Cell peak-to-peak value	software	V
{ifo}:PSL-FSS_PZT_RAMP_ACTIVE	status of PZT ramp	software	
{ifo}:PSL-FSS_PZT_RAMP_FRQ	frequency of PZT ramp	software	Hz
{ifo}:PSL-FSS_PZT_RAMP_MAX	maximum voltage of PZT ramp	software	V
{ifo}:PSL-FSS_PZT_RAMP_MIN	minimum voltage of PZT ramp	software	V
{ifo}:PSL-FSS_PZT_RAMP_MODEPOS	FSS lock acquisition variable	software	
{ifo}:PSL-FSS_PZT_RAMP_PHASE	phase of PZT ramp	software	deg
{ifo}:PSL-FSS_PZT_RAMP_PHASEPOS	FSS lock acquisition variable	software	deg
{ifo}:PSL-FSS_RELOCK_COUNT	number of relocks	software	#
{ifo}:PSL-FSS_RELOCK_DAY	days since last relock	software	days
{ifo}:PSL-FSS_RELOCK_DUR	duration of last relock	software	months
{ifo}:PSL-FSS_RELOCK_HOUR	hours since last relock	software	hours
{ifo}:PSL-FSS_RELOCK_MIN	minutes since last relock	software	minutes
{ifo}:PSL-FSS_RELOCK_RESET	resets relock counter	software	
{ifo}:PSL-FSS_RESONANT	indicates if reference cavity is resonant	software	
{ifo}:PSL-FSS_RESONANT_THRES	threshold for resonant detection	software	V
{ifo}:PSL-FSS_TEMP	NPRO temperature offset	software	deg C
{ifo}:PSL-FSS_TEMP_FIXEDRAMP_DUR	duration of NPRO temperature ramp	software	s
{ifo}:PSL-FSS_TEMP_FIXEDRAMP_MAX	maximum value for NPRO temperature ramp	software	V
{ifo}:PSL-FSS_TEMP_FIXEDRAMP_MIN	minimum value for NPRO temperature ramp	software	V
{ifo}:PSL-FSS_TEMP_LOOP	filter module for temperature loop	software	
{ifo}:PSL-FSS_TEMP_LOOP_ON	state of temperature loop	software	
{ifo}:PSL-FSS_TEMP_LOOP_ON_REQUEST	requested state of temperature loop	software	
{ifo}:PSL-FSS_TEMP_MODE	switch between different temperature ramps (if autolock off)	software	
{ifo}:PSL-FSS_TEMP_MODE_REQUEST	requested temperature ramp	software	
{ifo}:PSL-FSS_TEMP_SEARCH_LOOP	FSS lock acquisition variable	software	
{ifo}:PSL-FSS_TEMP_SEARCH_MODEFOUND	indicates if reference cavity is resonant	software	
{ifo}:PSL-FSS_TEMP_SEARCH_RAMP_DUR	duration of NPRO temperature ramp	software	s
{ifo}:PSL-FSS_TEMP_SEARCH_RAMP_MAX	maximum value for NPRO temperature ramp	software	V
{ifo}:PSL-FSS_TEMP_SEARCH_RAMP_MIN	minimum value for NPRO temperature ramp	software	V
{ifo}:PSL-FSS_TEST1_ON_CALI	calibration of Test1	software	
{ifo}:PSL-FSS_TEST2_ON_CALI	calibration of Test2	software	
{ifo}:PSL-FSS_TPD_PP	peak-to-peak value of reference cavity transmission photo diode	software	V
{ifo}:PSL-FSS_VCO_MODLEVEL_CALI	calibration of modulation level	software	
{ifo}:PSL-FSS_VCO_TEST_ON_CALI	calibration for test input of VCO	software	
{ifo}:PSL-FSS_VCO_WIDE_ON	switch for wide-band-input of VCO	software	
{ifo}:PSL-FSS_VCO_WIDE_ON_CALI	calibration of wide-band-input of VCO	software	
{ifo}:PSL-ISS			
{ifo}:PSL-ISS_AOM_DRIVER_MON	voltage inserted in AOM driver	software	V
{ifo}:PSL-ISS_AUTOLOCK_DELAY	time in between different autolock states	software	s
{ifo}:PSL-ISS_AUTOLOCK_ON	automatic lock request	software	
{ifo}:PSL-ISS_AUTOLOCK_SIGN	no longer used	software	
{ifo}:PSL-ISS_CTRL_OFFSET_CALI	calibration of Offset % to V to counts	software	
{ifo}:PSL-ISS_DIFFRACTION	AOM diffracted power	software	%
{ifo}:PSL-ISS_DIFFRACTION_AVG	average AOM diffracted power (1 sec average)	software	%
{ifo}:PSL-ISS_DIFFRACTION_MAX	maximum AOM diffracted power (1 sec average)	software	%
{ifo}:PSL-ISS_DIFFRACTION_MIN	minimum AOM diffracted power (1 sec average)	software	%
{ifo}:PSL-ISS_DIFF_POLY_0	0th order of calibration polynomial for AOM diffracted power	software	
{ifo}:PSL-ISS_DIFF_POLY_1	1st order of calibration polynomial for AOM diffracted power	software	
{ifo}:PSL-ISS_DIFF_POLY_2	2nd order of calibration polynomial for AOM diffracted power	software	
{ifo}:PSL-ISS_DIGITAL_LOOP	output of digital support loop	software	
{ifo}:PSL-ISS_DIGITAL_SCALING	compensation for band-pass in the analog loop	software	
{ifo}:PSL-ISS_GAIN_CALI	calibration of loop gain	software	
{ifo}:PSL-ISS_INLOOP_PD_SELECT_CALI	calibration for {ifo}:PSL-ISS_INLOOP_PD_SELECT	software	
{ifo}:PSL-ISS_INTERLOCK_LP	no longer used	software	
{ifo}:PSL-ISS_INTERLOCK_RESET	no longer used	software	
{ifo}:PSL-ISS_INTERLOCK_THRES	no longer used	software	
{ifo}:PSL-ISS_INTERLOCK_TRIPPED	no longer used	software	
{ifo}:PSL-ISS_LOOP_STATE_REQUEST	requested loop state	software	
{ifo}:PSL-ISS_OSCILLATION_MON	oscillation monitor at error point	software	
{ifo}:PSL-ISS_OSCILLATION_MON_BP	band pass for oscillation monitor	software	
{ifo}:PSL-ISS_OSCILLATION_MON_LP	low pass for oscillation monitor	software	
{ifo}:PSL-ISS_OSCILLATION_THRESHOLD	threshold for oscillation monitor	software	
{ifo}:PSL-ISS_PDA	PD A filter output signal	software	V
{ifo}:PSL-ISS_PDA_AVG	averaged PD A filter output signal	software	V
{ifo}:PSL-ISS_PDA_CALI_AC	calibration of PD A filter output to AC value used for in-model noise-calculations	software	
{ifo}:PSL-ISS_PDA_CALI_DC	calibration of PD A filter output to DC value	software	
{ifo}:PSL-ISS_PDA_DUR	averaging time of PD A filter output signal	software	s
{ifo}:PSL-ISS_PDA_LSD	calculated linear spectral density	software	/rt(Hz)
{ifo}:PSL-ISS_PDA_LSD_BANDPASS	bandpass filter for calculating linear spectral density at different frequencies	software	
{ifo}:PSL-ISS_PDA_LSD_INTEGRATION	integration time for calculating linear spectral density	software	
{ifo}:PSL-ISS_PDA_MAX	maximum of averaged PD A filter output signal	software	V
{ifo}:PSL-ISS_PDA_MIN	minimum of averaged PD A filter output signal	software	V
{ifo}:PSL-ISS_PDA_REL	calculated relative power noise at PD A	software	
{ifo}:PSL-ISS_PDB	PD B filter output signal	software	V
{ifo}:PSL-ISS_PDB_AVG	averaged PD B filter output signal	software	V
{ifo}:PSL-ISS_PDB_CALI_AC	calibration of PD B filter output to AC value used for in-model noise-calculations	software	
{ifo}:PSL-ISS_PDB_CALI_DC	calibration of PD B filter output to DC value	software	
{ifo}:PSL-ISS_PDB_DUR	averaging time of PD B filter output signal	software	s
{ifo}:PSL-ISS_PDB_LSD	calculated linear spectral density	software	/rt(Hz)
{ifo}:PSL-ISS_PDB_LSD_BANDPASS	bandpass filter for calculating linear spectral density at different frequencies	software	
{ifo}:PSL-ISS_PDB_LSD_INTEGRATION	integration time for calculating linear spectral density	software	
{ifo}:PSL-ISS_PDB_MAX	maximum of averaged PD B filter output signal	software	V
{ifo}:PSL-ISS_PDB_MIN	minimum of averaged PD B filter output signal	software	V
{ifo}:PSL-ISS_PDB_REL	calculated relative power noise at PD B	software	
{ifo}:PSL-ISS_QPD_DX	difference of right half and left half of QPD	software	
{ifo}:PSL-ISS_QPD_DY	difference of upper and lower half of QPD	software	
{ifo}:PSL-ISS_REFSIGNAL_CALI	calibration of refence signal	software	
{ifo}:PSL-ISS_REFSIGNAL_MON	reference signal monitor	software	
{ifo}:PSL-ISS_SAT_DAY	days since last saturation event	software	
{ifo}:PSL-ISS_SAT_DELAY	delay between the saturation event and the next attempt to lock	software	
{ifo}:PSL-ISS_SAT_DUR	last lock acquisition duration	software	s
{ifo}:PSL-ISS_SAT_EVENTS	number of saturation events	software	
{ifo}:PSL-ISS_SAT_HOUR	hours since last saturation event	software	hours
{ifo}:PSL-ISS_SAT_MIN	minutes since last saturation event	software	min
{ifo}:PSL-ISS_SAT_RESET	resets the saturation event counter	software	
{ifo}:PSL-ISS_SAT_THRES	threshold for saturation monitor	software	V
{ifo}:PSL-ISS_SECONDLOOP_CLOSED_CALI	calibration of {ifo}:PSL-ISS_SECONDLOOP_CLOSED	software	
{ifo}:PSL-ISS_SECONDLOOP_SIGNAL	input of second loop detector	software	
{ifo}:PSL-ISS_SLOW_POWER_CONTROL	possibility to change reference signal	software	
{ifo}:PSL-ISS_SLOW_POWER_CONTROL_MON	monitor of {ifo}:PSL-ISS_SLOW_POWER_CONTROL	software	
{ifo}:PSL-ISS_TRANSFER1_A	signal in front of summation point in first loop	software	
{ifo}:PSL-ISS_TRANSFER1_B	signal behind summation point in first loop	software	

{ifo}:PSL-ISS_TRANSFER2_A	signal in front of summation point in second loop	software	
{ifo}:PSL-ISS_TRANSFER2_B	signal behind summation point in second loop	software	
{ifo}:PSL-ISS_TRANS_PWR	no longer used	software	
{ifo}:PSL-MIS_CLOSE_SHUTTER_CTRL_ROOM			
{ifo}:PSL-MIS_CLOSE_SHUTTER_CTRL_ROOM	external shutter close request from control room	software	
{ifo}:PSL-MIS_CLOSE_SHUTTER_IO	external shutter close request from IO	software	
{ifo}:PSL-MIS_CLOSE_SHUTTER_ISC	external shutter close request from ISC	software	
{ifo}:PSL-MIS_EPICALARM_MON	status of epics alarm	software	
{ifo}:PSL-MIS_FLOW_LOWER	lower boundary of flow watch dog	software	
{ifo}:PSL-MIS_FLOW_OK	indicates if flow is in between the upper and lower flow boundary	software	
{ifo}:PSL-MIS_FLOW_UPPER	upper boundary of flow watch dog	software	
{ifo}:PSL-OSC_PD_AMP_AC			
{ifo}:PSL-OSC_PD_AMP_AC	no longer used	software	
{ifo}:PSL-OSC_PD_AMP_DC	DC value of Photo Diode to monitor amplifier power	software	W
{ifo}:PSL-OSC_PD_BP_AC	no longer used	software	
{ifo}:PSL-OSC_PD_BP_DC	DC value of Photo Diode to monitor power at brewster plate	software	V
{ifo}:PSL-OSC_PD_INT_AC	no longer used	software	
{ifo}:PSL-OSC_PD_INT_DC	DC value of Photo Diode to monitor resonator internal power	software	V
{ifo}:PSL-OSC_PD_ISO_AC	no longer used	software	
{ifo}:PSL-OSC_PD_ISO_DC	DC value of Photo Diode to monitor power at faraday isolator	software	V
{ifo}:PSL-PMC			
{ifo}:PSL-PMC_ALIGNRAMP_FREQ	frequency of alignment ramp	software	Hz
{ifo}:PSL-PMC_ALIGNRAMP_MAX	maximum value of alignment ramp amplitude	software	V
{ifo}:PSL-PMC_ALIGNRAMP_MIN	minimum value of alignment ramp amplitude	software	V
{ifo}:PSL-PMC_ALIGNRAMP_ON	alignment ramp state	software	
{ifo}:PSL-PMC_BLANKING_CALI	on/off switch for servo (not used during autolock mode)	software	
{ifo}:PSL-PMC_BOOST_CALI	on/off switch for integrators (not used during autolock mode)	software	
{ifo}:PSL-PMC_HEATER_CALI	calibrated signal to Heater	software	
{ifo}:PSL-PMC_HEATER_MAX	maximum voltage to Heater	software	V
{ifo}:PSL-PMC_HEATER_OFFSET	Offset for temperature control loop	software	
{ifo}:PSL-PMC_HEATER_POWER	percentage of current heating power with respect to maximum value	software	%
{ifo}:PSL-PMC_HEATER_POWER_LP	low pass for Heater power	software	
{ifo}:PSL-PMC_HV_MON_AVG	averaged of HV monitor	software	
{ifo}:PSL-PMC_HV_MON_FREQ_CALI	designated output for frequency noise measurement	software	
{ifo}:PSL-PMC_HV_MON_MAX	maximum averaged of HV monitor	software	V
{ifo}:PSL-PMC_HV_MON_MIN	minimum averaged of HV monitor	software	V
{ifo}:PSL-PMC_HV_REF	reference signal of temperature loop	software	V
{ifo}:PSL-PMC_GAIN_CALI	calibration of gain	software	
{ifo}:PSL-PMC_INOFFSET_CALI	calibration of input offset for PMC locking loop	software	
{ifo}:PSL-PMC_INOFFSET_MOD_AMP	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_INOFFSET_MOD_CLKGAIN	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_INOFFSET_MOD_COSGAIN	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_INOFFSET_MOD_FREQ	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_INOFFSET_MOD_LOWPASS	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_INOFFSET_MOD_PHASE	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_INOFFSET_MOD_SINGAIN	modulation-demodulation scheme of input offset calibration	software	
{ifo}:PSL-PMC_LOCKED	loop state	software	
{ifo}:PSL-PMC_LOCK_ON_CALI	calibration of requested loop state	software	
{ifo}:PSL-PMC_MIN_TRIGGER	lower boundary for resonant condition	software	V
{ifo}:PSL-PMC_OSCILLATION_MON	oscillation monitor at error point	software	
{ifo}:PSL-PMC_OSCILLATION_MON_BP	band pass for oscillation monitor	software	
{ifo}:PSL-PMC_OSCILLATION_MON_LP	low pass for oscillation monitor	software	
{ifo}:PSL-PMC_OSCILLATION_THRESHOLD	threshold for oscillation monitor	software	
{ifo}:PSL-PMC_RAMP_ON_CALI	calibration of ramp on	software	
{ifo}:PSL-PMC_REFL_PWR	PMC reflected power	software	W
{ifo}:PSL-PMC_REF_CALI	calibration of reference signal	software	
{ifo}:PSL-PMC_RELOCK_COUNT	number of relocks	software	
{ifo}:PSL-PMC_RELOCK_DAY	days since last relock	software	days
{ifo}:PSL-PMC_RELOCK_DUR	duration of last relock	software	s
{ifo}:PSL-PMC_RELOCK_HOUR	hours since last relock	software	hours
{ifo}:PSL-PMC_RELOCK_MIN	minutes since last relock	software	min
{ifo}:PSL-PMC_RELOCK_RESET	resets relock counter	software	
{ifo}:PSL-PMC_RESONANT	indicates if PMC is resonant	software	
{ifo}:PSL-PMC_RESONANT_THRES	threshold for resonant detection	software	
{ifo}:PSL-PMC_TEMP_CTRL_SIGNAL	error point of temperature loop	software	
{ifo}:PSL-PMC_TEMP_LOOP	requested loop state of temperature loop	software	
{ifo}:PSL-PMC_TF_IN_ON_CALI	calibration of TF_IN	software	
{ifo}:PSL-PWR_HPL_DC_LP			
{ifo}:PSL-PWR_HPL_DC_LP	output power of high power oscillator	software	
{ifo}:PSL-PWR_PMC_SUM			
{ifo}:PSL-PWR_PMC_SUM	total power at PMC	software	
{ifo}:PSL-DBB_AO_LIMITEDSLEW			
{ifo}:PSL-DBB_AO_LIMITEDSLEW	see RT control model or EPICS screen	software	
{ifo}:PSL-DBB_AO_NEXTCYCLING			
{ifo}:PSL-DBB_AO_NEXTCYCLING	see RT control model or EPICS screen	software	
{ifo}:PSL-DBB_AO_PZTCYCLE			
{ifo}:PSL-DBB_AO_PZTCYCLE	see RT control model or EPICS screen	software	
{ifo}:PSL-DBB_AO_PZTCYCLEMEX			
{ifo}:PSL-DBB_AO_PZTCYCLEMEX	see RT control model or EPICS screen	software	
{ifo}:PSL-DBB_AO_PZTCYCLEMEN			
{ifo}:PSL-DBB_AO_PZTCYCLEMEN	see RT control model or EPICS screen	software	
{ifo}:PSL-DBB_AO_PZTCYCLING			
{ifo}:PSL-DBB_AO_PZTCYCLING	see RT control model or EPICS screen	software	
{ifo}:PSL-DBB_CTRL0_ADD			
{ifo}:PSL-DBB_CTRL0_ADD	PZT HV signal for DBB modecleaner	software	cts
{ifo}:PSL-DBB_CTRL_ALIGN_HOLD			
{ifo}:PSL-DBB_CTRL_ALIGN_HOLD	holds alignment PZT voltage constant when enabled	software	
{ifo}:PSL-DBB_CTRL_CTRL0			
{ifo}:PSL-DBB_CTRL_CTRL0	output of MC alignment control loop	software	
{ifo}:PSL-DBB_CTRL_CTRL1X_CAL			
{ifo}:PSL-DBB_CTRL_CTRL1X_CAL	calibration for alignment PZT 1x	software	
{ifo}:PSL-DBB_CTRL_CTRL1X_EPS			
{ifo}:PSL-DBB_CTRL_CTRL1X_EPS	calibration for alignment PZT 1x	software	
{ifo}:PSL-DBB_CTRL_CTRL1X_MON			
{ifo}:PSL-DBB_CTRL_CTRL1X_MON	HV signal for alignment PZT 1x	software	cts
{ifo}:PSL-DBB_CTRL_CTRL1Y_CAL			
{ifo}:PSL-DBB_CTRL_CTRL1Y_CAL	calibration for alignment PZT 1y	software	
{ifo}:PSL-DBB_CTRL_CTRL1Y_EPS			
{ifo}:PSL-DBB_CTRL_CTRL1Y_EPS	calibration for alignment PZT 1y	software	
{ifo}:PSL-DBB_CTRL_CTRL1Y_MON			
{ifo}:PSL-DBB_CTRL_CTRL1Y_MON	HV signal for alignment PZT 1y	software	cts
{ifo}:PSL-DBB_CTRL_CTRL2X_CAL			
{ifo}:PSL-DBB_CTRL_CTRL2X_CAL	calibration for alignment PZT 2x	software	
{ifo}:PSL-DBB_CTRL_CTRL2X_EPS			
{ifo}:PSL-DBB_CTRL_CTRL2X_EPS	calibration for alignment PZT 2x	software	
{ifo}:PSL-DBB_CTRL_CTRL2X_MON			
{ifo}:PSL-DBB_CTRL_CTRL2X_MON	HV signal for alignment PZT 2x	software	cts
{ifo}:PSL-DBB_CTRL_CTRL2Y_CAL			
{ifo}:PSL-DBB_CTRL_CTRL2Y_CAL	calibration for alignment PZT 2y	software	
{ifo}:PSL-DBB_CTRL_CTRL2Y_EPS			
{ifo}:PSL-DBB_CTRL_CTRL2Y_EPS	calibration for alignment PZT 2y	software	
{ifo}:PSL-DBB_CTRL_CTRL2Y_MON			
{ifo}:PSL-DBB_CTRL_CTRL2Y_MON	HV signal for alignment PZT 2y	software	cts
{ifo}:PSL-DBB_CTRL_DCTRL1X			
{ifo}:PSL-DBB_CTRL_DCTRL1X	integrator for demodulated signal of autoalignment loop 1x	software	
{ifo}:PSL-DBB_CTRL_DCTRL1Y			
{ifo}:PSL-DBB_CTRL_DCTRL1Y	integrator for demodulated signal of autoalignment loop 1y	software	
{ifo}:PSL-DBB_CTRL_DCTRL2X			
{ifo}:PSL-DBB_CTRL_DCTRL2X	integrator for demodulated signal of autoalignment loop 2x	software	
{ifo}:PSL-DBB_CTRL_DCTRL2Y			
{ifo}:PSL-DBB_CTRL_DCTRL2Y	integrator for demodulated signal of autoalignment loop 2y	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_1_1			
{ifo}:PSL-DBB_CTRL_DMATRIX_1_1	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_1_2			
{ifo}:PSL-DBB_CTRL_DMATRIX_1_2	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_1_3			
{ifo}:PSL-DBB_CTRL_DMATRIX_1_3	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_1_4			
{ifo}:PSL-DBB_CTRL_DMATRIX_1_4	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_2_1			
{ifo}:PSL-DBB_CTRL_DMATRIX_2_1	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_2_2			
{ifo}:PSL-DBB_CTRL_DMATRIX_2_2	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{ifo}:PSL-DBB_CTRL_DMATRIX_2_3			
{ifo}:PSL-DBB_CTRL_DMATRIX_2_3	matrix element for assigning QPD demodulated signal to alignment PZT	software	

{fo}:PSL-DBB_CTRL_DMATRIX_2_4	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_3_1	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_3_2	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_3_3	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_3_4	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_4_1	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_4_2	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_4_3	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DMATRIX_4_4	matrix element for assigning QPD demodulated signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_DSWITCH	switch to enable/disable autoalignment loop	software	
{fo}:PSL-DBB_CTRL_DSWITCH_ON	state of autoalignment loop	software	
{fo}:PSL-DBB_CTRL_LOCKED	state of MC lock acquisition	software	
{fo}:PSL-DBB_CTRL_LOWER_THRES	lower threshold for MC locking range	software	
{fo}:PSL-DBB_CTRL_MOD1X_AMP	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1X_CLKGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1X_COSGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1X_FREQ	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1X_PHASE	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1X_SINGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1Y_AMP	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1Y_CLKGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1Y_COSGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1Y_FREQ	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1Y_PHASE	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD1Y_SINGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2X_AMP	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2X_CLKGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2X_COSGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2X_FREQ	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2X_PHASE	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2X_SINGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2Y_AMP	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2Y_CLKGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2Y_COSGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2Y_FREQ	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2Y_PHASE	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_MOD2Y_SINGAIN	modulation/demodulation scheme to compensate offsets in alignment loop 1x	software	
{fo}:PSL-DBB_CTRL_PRE_THRES	threshold for power on RPD	software	
{fo}:PSL-DBB_CTRL_QCTRL1X	integrator for prealignment loop 1x	software	
{fo}:PSL-DBB_CTRL_QCTRL1Y	integrator for prealignment loop 1y	software	
{fo}:PSL-DBB_CTRL_QCTRL2X	integrator for prealignment loop 2x	software	
{fo}:PSL-DBB_CTRL_QCTRL2Y	integrator for prealignment loop 2y	software	
{fo}:PSL-DBB_CTRL_QMATRIX_1_1	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_1_2	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_1_3	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_1_4	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_2_1	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_2_2	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_2_3	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_2_4	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_3_1	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_3_2	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_3_3	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_3_4	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_4_1	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_4_2	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_4_3	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QMATRIX_4_4	matrix element for assigning QPD DC signal to alignment PZT	software	
{fo}:PSL-DBB_CTRL_QSWITCH	switch to enable/disable prealignment loop	software	
{fo}:PSL-DBB_CTRL_QSWITCH_ON	state of prealignment loop	software	
{fo}:PSL-DBB_CTRL_RESONANT	indicates if MC is resonant	software	
{fo}:PSL-DBB_CTRL_THRESHOLD	threshold for resonant condition of MC	software	
{fo}:PSL-DBB_CTRL_UPPER_THRES	upper threshold for MC locking range	software	
{fo}:PSL-DBB_DBID	DBB serial number	software	
{fo}:PSL-DBB_FILTER_SWITCH1	see RT control model or EPICS screen	software	
{fo}:PSL-DBB_FILTER_SWITCH2	see RT control model or EPICS screen	software	
{fo}:PSL-DBB_INPUT_1	auxiliary input 1	software	
{fo}:PSL-DBB_INPUT_2	auxiliary input 2	software	
{fo}:PSL-DBB_INPUT_3	auxiliary input 3	software	
{fo}:PSL-DBB_INPUT_4	auxiliary input 4	software	
{fo}:PSL-DBB_INTERLOCK_BP	bandpass for interlock	software	
{fo}:PSL-DBB_INTERLOCK_HARDWARE	hardware interlock	software	
{fo}:PSL-DBB_INTERLOCK_LP	lowpass for interlock	software	
{fo}:PSL-DBB_INTERLOCK_SOFTWARE	software interlock	software	
{fo}:PSL-DBB_INTERLOCK_THRESHOLD	threshold for interlock	software	
{fo}:PSL-DBB_LENS1_CAL	calibration for lens position	software	mm/cts
{fo}:PSL-DBB_LENS2_CAL	calibration for lens position	software	mm/cts
{fo}:PSL-DBB_LENS_LATCH	switch to latch lenses	software	
{fo}:PSL-DBB_MAN_RAMP	slider to manually set HV voltage for MC PZT	software	
{fo}:PSL-DBB_MAN_RAMP_CAL	calibration for manually set HV voltage	software	cts/V
{fo}:PSL-DBB_MODE_COUNTDOWN	time left until DBB will return to Standby	software	
{fo}:PSL-DBB_MODE_NUM	mode state	software	
{fo}:PSL-DBB_MODE_REQUEST	mode state request	software	
{fo}:PSL-DBB_MODE_RESET_TIMEOUT	time until DBB will return to Standby after switching mode state	software	
{fo}:PSL-DBB_MODE_RMT	remote control of DBB enabled/disabled	software	
{fo}:PSL-DBB_MOD_ON	modulation enabled/disabled	software	
{fo}:PSL-DBB_MON_HV	MC HV monitor	software	V
{fo}:PSL-DBB_MON_HV_FSR	calibration of HV monitor in FSR	software	FSR/V
{fo}:PSL-DBB_MON_PZT	sensitive AC coupled HV monitor for frequency noise measurement	software	
{fo}:PSL-DBB_MON_PZT_CAL	calibration for PZT monitor	software	
{fo}:PSL-DBB_MON_SHUTTER	shutter calibration	software	
{fo}:PSL-DBB_MON_SHUTTER_CLOSED	shutter state	software	
{fo}:PSL-DBB_PH_CAL	calibration for phase	software	
{fo}:PSL-DBB_QPD_1DX	demodulated signal of QPD 1dx	software	
{fo}:PSL-DBB_QPD_1DX_CAL	calibration for QPD 1dx	software	
{fo}:PSL-DBB_QPD_1DX_OFS	offset for QPD 1dx	software	
{fo}:PSL-DBB_QPD_1DY	demodulated signal of QPD 1dy	software	
{fo}:PSL-DBB_QPD_1DY_CAL	calibration for QPD 1dy	software	
{fo}:PSL-DBB_QPD_1DY_OFS	offset for QPD 1dy	software	
{fo}:PSL-DBB_QPD_1QS	sum of DC signals of QPD1	software	
{fo}:PSL-DBB_QPD_1QX	DC signal of QPD 1dx	software	
{fo}:PSL-DBB_QPD_1QY	DC signal of QPD 1dy	software	
{fo}:PSL-DBB_QPD_2DX	demodulated signal of QPD 2dx	software	
{fo}:PSL-DBB_QPD_2DX_CAL	calibration for QPD 2dx	software	

{ifo}:PSL-DBB_QPD_2DX_OFS	offset for QPD 2dx	software
{ifo}:PSL-DBB_QPD_2DY	demodulated signal of QPD 2dy	software
{ifo}:PSL-DBB_QPD_2DY_CAL	calibration for QPD 2dy	software
{ifo}:PSL-DBB_QPD_2DY_OFS	offset for QPD 2dy	software
{ifo}:PSL-DBB_QPD_2QS	sum of DC signals of QPD2	software
{ifo}:PSL-DBB_QPD_2QX	DC signal of QPD 2dx	software
{ifo}:PSL-DBB_QPD_2QY	DC signal of QPD 2dy	software
{ifo}:PSL-DBB_QPD_CALIOSC_CLKGAIN	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALIOSC_COSGAIN	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALIOSC_FREQ	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALIOSC_SINGAIN	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALI_AGE	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALI_AMP	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALI_COUNTDOWN	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALI_DURATION	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALI_FACTOR	calibration for error signals	software
{ifo}:PSL-DBB_QPD_CALI_TRIGGER	calibration for error signals	software
{ifo}:PSL-DBB_QPD_DS_CAL	calibration for demodulated sum signals of QPD	software
{ifo}:PSL-DBB_QPD_MCALI_AGE	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_AGE_1X	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_AGE_1Y	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_AGE_2X	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_AGE_2Y	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_AMP	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_COUNTDOWN	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_DURATION	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_FACTOR_1X	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_FACTOR_1Y	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_FACTOR_2X	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_FACTOR_2Y	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MCALI_TRIGGER	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MOD1X_LP	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MOD1Y_LP	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MOD2X_LP	calibration for error signals	software
{ifo}:PSL-DBB_QPD_MOD2Y_LP	calibration for error signals	software
{ifo}:PSL-DBB_RAMP_LOCK_AMP	amplitude of ramp in lockmode	software
{ifo}:PSL-DBB_RAMP_LOCK_FREQ	frequency of ramp in lockmode	software
{ifo}:PSL-DBB_RAMP_SCAN_AMP	amplitude of ramp in scanmode	software
{ifo}:PSL-DBB_RAMP_SCAN_FREQ	frequency of ramp in scanmode	software
{ifo}:PSL-DBB_RPD_AC_CAL	calibration for RPD AC	software
{ifo}:PSL-DBB_RPD_CURRENT	photo current of RPD	software
{ifo}:PSL-DBB_RPD_DC_LP	lowpassed DC output of RPD	software
{ifo}:PSL-DBB_RPD_REL_PWR	RPD AC voltage divided by RPD DC voltage	software
{ifo}:PSL-DBB_RPD_SHOTNOISE	shotnoise level of RPD	software
{ifo}:PSL-DBB_SHUTTER	request for opening of shutter 1 or 2	software
{ifo}:PSL-DBB_SHUTTER_DELAY	time delay between closing shutter 1 and opening shutter 2 and vice versa	software
{ifo}:PSL-DBB_TEM00_AVG	no longer used	software
{ifo}:PSL-DBB_TEM00_RPD	no longer used	software
{ifo}:PSL-DBB_TEM00_TPD	no longer used	software
{ifo}:PSL-DBB_TPD_40DB_INT	offset compensation for 40dB output	software
{ifo}:PSL-DBB_TPD_80DB_INT	offset compensation for 80dB output	software
{ifo}:PSL-DBB_TPD_VALUE	combined value from TPD 0dB, 40dB and 80dB output	software
{ifo}:PSL-DBB_VERSION	software version	software