EPICS Name

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{ifo}:PSL-AMP_ENABLEPWRDOG
{ifo}:PSL-AMP_ERR
{ifo}:PSL-AMP_LIDCLOSED
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{ifo}:PSL-AMP_WATCHDOG
{ifo}:PSL-AMP_SHUTTERCLSD
{ifo}:PSL-AMP_SHUTTEROPEN
{ifo}:PSL-AMP_SYSTEMOK
{ifo}:PSL-AMP_WARN
{ifo}:PSL-AMP_LOWFLOW
{ifo}:PSL-AMP_FLOWERR
{ifo}:PSL-AMP_XTALOVRTEMP
{ifo}:PSL-AMP_LIDCOUNT
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{ifo}:PSL-EPICSALARM
{ifo}:PSL-IL_DBTEMPGUARDS
{ifo}:PSL-IL_DCHILFLOW
{ifo}:PSL-IL_DIODERMEMSTOP
{ifo}:PSL-IL_DIODERMFACILITY
{ifo}:PSL-IL_DIODERMKEYLOCK
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Laser computer name [Opc-Server].[Beckhoff variable]

D1

D1.1 / front end (Beckhoff)

AdL-REF-OPC1.bAmpDBHeatsinkOvertempError
AdL-REF-OPC1.bAmpDiodeTempError
AdL-REF-OPC1.bAmpEnablePowerWatchdog
AdL-REF-OPC1.bAmpError
AdL-REF-OPC1.bAmpLidClosed
AdL-REF-OPC1.bAmpLidError
AdL-REF-OPC1.bAmpManualMode
AdL-REF-OPC1.bAmpNPRORunning
AdL-REF-OPC1.bAmpOverrideLidInterlock
AdL-REF-OPC1.bAmpPowerWatchdogError
AdL-REF-OPC1.bAmpShutterClosed
AdL-REF-OPC1.bAmpShutterOpen
AdL-REF-OPC1.bAmpSystemRunning
AdL-REF-OPC1.bAmpWarning
AdL-REF-OPC1.bAmpWaterFlowWarning
AdL-REF-OPC1.bAmpWaterFlowError
AdL-REF-OPC1.bAmpXtalOvertempError
AdL-REF-OPC1.iAmpLidCounter
AdL-REF-OPC1.iAmpOpHrs
AdL-REF-OPC1.rAmpDBHeatsinkTempAct
AdL-REF-OPC1.rAmpDiodeCurrentAct[1]
AdL-REF-OPC1.rAmpDiodeCurrentAct[2]
AdL-REF-OPC1.rAmpDiodeCurrentSet[1]
AdL-REF-OPC1.rAmpDiodeCurrentSet[2]
AdL-REF-OPC1.rAmpDiodePowerAct[1]
AdL-REF-OPC1.rAmpDiodePowerAct[2]
AdL-REF-OPC1.rAmpDiodePowerAct[3]
AdL-REF-OPC1.rAmpDiodePowerAct[4]
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AdL-REF-OPC1.rAmpDiodeTempAct[4]
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AdL-REF-OPC1.rAmpDiodeTempCtrl[3]
AdL-REF-OPC1.rAmpDiodeTempCtrl[4]
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AdL-REF-OPC1.rAmpDiodeVoltageAct[1]
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AdL-REF-OPC1.rAmpLaserPowerAct[1]
AdL-REF-OPC1.rAmpLaserPowerAct[2]
AdL-REF-OPC1.rAmpLaserPowerAct[3]
AdL-REF-OPC1.rAmpWaterFlowAct
AdL-REF-OPC1.rAmpXtalTempAct
AdL-REF-OPC1.bAmpNPROTempGuardError
AdL-REF-OPC1.iNproOpHrs
AdL-REF-OPC1.rAmpNPRODiag[1]
AdL-REF-OPC1.rAmpNPRODiag[2]
AdL-REF-OPC1.rAmpNPRODiag[3]
AdL-REF-OPC1.rAmpNPRODiag[4]
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AdL-REF-OPC1.rAmpNPRODiag[8]
AdL-REF-OPC1.rAmpNPRODiag[9]
AdL-REF-OPC1.rAmpNPRODiag[10]
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AdL-REF-OPC1.rAmpNPRODiag[13]
AdL-REF-OPC1.rAmpNPRODiag[14]

D1.2 / HPL (Beckhoff)

AdL-REF-OPC1.bEpicsExternalAlarm
AdL-REF-OPC1.bILDBTempGuards
AdL-REF-OPC1.bILDChilFlow
AdL-REF-OPC1.bILDiodeRoomEmergencyStop
AdL-REF-OPC1.bILDiodeRoomFacility
AdL-REF-OPC1.bILDiodeRoomSafetyKeylock
AdL-REF-OPC1.bILFrontendTempGuards
AdL-REF-OPC1.bILLveaEmergencyStop
AdL-REF-OPC1.bILLveaFacility
AdL-REF-OPC1.bILLveaSafetyKeylock
AdL-REF-OPC1.bILOK
AdL-REF-OPC1.bILTECStatus
AdL-REF-OPC1.bILTwinSafeFBError
AdL-REF-OPC1.bILXChilFlow
AdL-REF-OPC1.bCouplerStateError
AdL-REF-OPC1.bDChilAlarm
AdL-REF-OPC1.bOscActuatorRangeWarning
AdL-REF-OPC1.bOscDBHeatsinkOvertempError
AdL-REF-OPC1.bOscDiodeTempError
AdL-REF-OPC1.bOscEnableActuator
AdL-REF-OPC1.bOscEnableLock
AdL-REF-OPC1.bOscEnablePowerWatchdog
AdL-REF-OPC1.bOscEnableFlowWatchdog
AdL-REF-OPC1.bOscEnableRamp
AdL-REF-OPC1.bOscEnableSW2
AdL-REF-OPC1.bOscError
AdL-REF-OPC1.bOscFiberSwitchVBAliveWarning
AdL-REF-OPC1.bOscHighPowerShutterClosed
AdL-REF-OPC1.bOscLidClosed
AdL-REF-OPC1.bOscLidError
AdL-REF-OPC1.bOscLocked
AdL-REF-OPC1.bOscLowPowerShutterClosed
AdL-REF-OPC1.bOscOverrideLidInterlock
AdL-REF-OPC1.bOscPowermeterWaterFlowError
AdL-REF-OPC1.bOscPowermeterWaterFlowWarning
AdL-REF-OPC1.bOscPowerwatchdogError
AdL-REF-OPC1.bOscWarning
AdL-REF-OPC1.bOscWaterFlowError
AdL-REF-OPC1.bOscPressure1MaxError
AdL-REF-OPC1.bOscWaterFlowWarning
AdL-REF-OPC1.bServiceMode
AdL-REF-OPC1.bXChilAlarm
AdL-REF-OPC1.iDChilOpHrs
AdL-REF-OPC1.iOscDB1OpHrs
AdL-REF-OPC1.iOscDB2OpHrs
AdL-REF-OPC1.iOscDB3OpHrs
AdL-REF-OPC1.iOscDB4OpHrs
AdL-REF-OPC1.iOscLidCounter

AdL-REF-OPC1.iOscRelockCounter
AdL-REF-OPC1.iXChilOpHrs
AdL-REF-OPC1.rDChilConductAct
AdL-REF-OPC1.rDChilFlowAct
AdL-REF-OPC1.rDChilTempAct
AdL-REF-OPC1.rDChilTempSet
AdL-REF-OPC1.rOscActuatorPositionAct
AdL-REF-OPC1.rOscActuatorPztVoltageMax
AdL-REF-OPC1.rOscActuatorPztVoltageMin
AdL-REF-OPC1.rOscActuatorRangeSet
AdL-REF-OPC1.rOscActuatorRefPointSet
AdL-REF-OPC1.rOscActuatorStepSizeSet
AdL-REF-OPC1.rOscBasePlateTempAct[1]
AdL-REF-OPC1.rOscBasePlateTempAct[2]
AdL-REF-OPC1.rOscBasePlateTempAct[3]
AdL-REF-OPC1.rOscBasePlateTempAct[4]
AdL-REF-OPC1.rOscBasePlateTempAct[5]
AdL-REF-OPC1.rOscDBCenterWavelengthAct[1]
AdL-REF-OPC1.rOscDBCenterWavelengthAct[2]
AdL-REF-OPC1.rOscDBCenterWavelengthAct[3]
AdL-REF-OPC1.rOscDBCenterWavelengthAct[4]
AdL-REF-OPC1.rOscDBFWHMAct[1]
AdL-REF-OPC1.rOscDBFWHMAct[2]
AdL-REF-OPC1.rOscDBFWHMAct[3]
AdL-REF-OPC1.rOscDBFWHMAct[4]
Adl-REF-OPC1.rOscDBSMoment[1]
Adl-REF-OPC1.rOscDBSMoment[2]
Adl-REF-OPC1.rOscDBSMoment[3]
Adl-REF-OPC1.rOscDBSMoment[4]
Adl-REF-OPC1.rOscDBFMoment[1]
Adl-REF-OPC1.rOscDBFMoment[2]
Adl-REF-OPC1.rOscDBFMoment[3]
Adl-REF-OPC1.rOscDBFMoment[4]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[1][1]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[1][2]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[2][1]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[2][2]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[3][1]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[3][2]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[4][1]
AdL-REF-OPC1.rOscDBHeatsinkTempAct[4][2]
AdL-REF-OPC1.rOscDBPowerAct[1]
AdL-REF-OPC1.rOscDBPowerAct[2]
AdL-REF-OPC1.rOscDBPowerAct[3]
AdL-REF-OPC1.rOscDBPowerAct[4]
AdL-REF-OPC1.rOscDBSpectralPowerAct[1]
AdL-REF-OPC1.rOscDBSpectralPowerAct[2]
AdL-REF-OPC1.rOscDBSpectralPowerAct[3]
AdL-REF-OPC1.rOscDBSpectralPowerAct[4]
AdL-REF-OPC1.rOscDBWPDAct[1]
AdL-REF-OPC1.rOscDBWPDAct[2]
AdL-REF-OPC1.rOscDBWPDAct[3]
AdL-REF-OPC1.rOscDBWPDAct[4]
AdL-REF-OPC1.rOscDiodeCurrentAct[1]
AdL-REF-OPC1.rOscDiodeCurrentAct[2]
AdL-REF-OPC1.rOscDiodeCurrentAct[3]
AdL-REF-OPC1.rOscDiodeCurrentAct[4]
AdL-REF-OPC1.rOscDiodeCurrentSet[1]

AdL-REF-OPC1.rOscDiodeCurrentSet[2]
AdL-REF-OPC1.rOscDiodeCurrentSet[3]
AdL-REF-OPC1.rOscDiodeCurrentSet[4]
AdL-REF-OPC1.rOscDiodePowerAct[1][1]
AdL-REF-OPC1.rOscDiodePowerAct[1][2]
AdL-REF-OPC1.rOscDiodePowerAct[1][3]
AdL-REF-OPC1.rOscDiodePowerAct[1][4]
AdL-REF-OPC1.rOscDiodePowerAct[1][5]
AdL-REF-OPC1.rOscDiodePowerAct[1][6]
AdL-REF-OPC1.rOscDiodePowerAct[1][7]
AdL-REF-OPC1.rOscDiodePowerAct[2][1]
AdL-REF-OPC1.rOscDiodePowerAct[2][2]
AdL-REF-OPC1.rOscDiodePowerAct[2][3]
AdL-REF-OPC1.rOscDiodePowerAct[2][4]
AdL-REF-OPC1.rOscDiodePowerAct[2][5]
AdL-REF-OPC1.rOscDiodePowerAct[2][6]
AdL-REF-OPC1.rOscDiodePowerAct[2][7]
AdL-REF-OPC1.rOscDiodePowerAct[3][1]
AdL-REF-OPC1.rOscDiodePowerAct[3][2]
AdL-REF-OPC1.rOscDiodePowerAct[3][3]
AdL-REF-OPC1.rOscDiodePowerAct[3][4]
AdL-REF-OPC1.rOscDiodePowerAct[3][5]
AdL-REF-OPC1.rOscDiodePowerAct[3][6]
AdL-REF-OPC1.rOscDiodePowerAct[3][7]
AdL-REF-OPC1.rOscDiodePowerAct[4][1]
AdL-REF-OPC1.rOscDiodePowerAct[4][2]
AdL-REF-OPC1.rOscDiodePowerAct[4][3]
AdL-REF-OPC1.rOscDiodePowerAct[4][4]
AdL-REF-OPC1.rOscDiodePowerAct[4][5]
AdL-REF-OPC1.rOscDiodePowerAct[4][6]
AdL-REF-OPC1.rOscDiodePowerAct[4][7]
AdL-REF-OPC1.rOscDiodeTempAct[1][1]
AdL-REF-OPC1.rOscDiodeTempAct[1][2]
AdL-REF-OPC1.rOscDiodeTempAct[1][3]
AdL-REF-OPC1.rOscDiodeTempAct[1][4]
AdL-REF-OPC1.rOscDiodeTempAct[1][5]
AdL-REF-OPC1.rOscDiodeTempAct[1][6]
AdL-REF-OPC1.rOscDiodeTempAct[1][7]
AdL-REF-OPC1.rOscDiodeTempAct[2][1]
AdL-REF-OPC1.rOscDiodeTempAct[2][2]
AdL-REF-OPC1.rOscDiodeTempAct[2][3]
AdL-REF-OPC1.rOscDiodeTempAct[2][4]
AdL-REF-OPC1.rOscDiodeTempAct[2][5]
AdL-REF-OPC1.rOscDiodeTempAct[2][6]
AdL-REF-OPC1.rOscDiodeTempAct[2][7]
AdL-REF-OPC1.rOscDiodeTempAct[3][1]
AdL-REF-OPC1.rOscDiodeTempAct[3][2]
AdL-REF-OPC1.rOscDiodeTempAct[3][3]
AdL-REF-OPC1.rOscDiodeTempAct[3][4]
AdL-REF-OPC1.rOscDiodeTempAct[3][5]
AdL-REF-OPC1.rOscDiodeTempAct[3][6]
AdL-REF-OPC1.rOscDiodeTempAct[3][7]
AdL-REF-OPC1.rOscDiodeTempAct[4][1]
AdL-REF-OPC1.rOscDiodeTempAct[4][2]
AdL-REF-OPC1.rOscDiodeTempAct[4][3]
AdL-REF-OPC1.rOscDiodeTempAct[4][4]
AdL-REF-OPC1.rOscDiodeTempAct[4][5]
AdL-REF-OPC1.rOscDiodeTempAct[4][6]

AdL-REF-OPC1.rOscDiodeTempAct[4][7]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][1]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][2]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][3]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][4]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][5]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][6]
AdL-REF-OPC1.rOscDiodeTempCtrl[1][7]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][1]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][2]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][3]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][4]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][5]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][6]
AdL-REF-OPC1.rOscDiodeTempCtrl[2][7]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][1]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][2]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][3]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][4]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][5]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][6]
AdL-REF-OPC1.rOscDiodeTempCtrl[3][7]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][1]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][2]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][3]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][4]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][5]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][6]
AdL-REF-OPC1.rOscDiodeTempCtrl[4][7]
AdL-REF-OPC1.rOscDiodeTempSet[1][1]
AdL-REF-OPC1.rOscDiodeTempSet[1][2]
AdL-REF-OPC1.rOscDiodeTempSet[1][3]
AdL-REF-OPC1.rOscDiodeTempSet[1][4]
AdL-REF-OPC1.rOscDiodeTempSet[1][5]
AdL-REF-OPC1.rOscDiodeTempSet[1][6]
AdL-REF-OPC1.rOscDiodeTempSet[1][7]
AdL-REF-OPC1.rOscDiodeTempSet[2][1]
AdL-REF-OPC1.rOscDiodeTempSet[2][2]
AdL-REF-OPC1.rOscDiodeTempSet[2][3]
AdL-REF-OPC1.rOscDiodeTempSet[2][4]
AdL-REF-OPC1.rOscDiodeTempSet[2][5]
AdL-REF-OPC1.rOscDiodeTempSet[2][6]
AdL-REF-OPC1.rOscDiodeTempSet[2][7]
AdL-REF-OPC1.rOscDiodeTempSet[3][1]
AdL-REF-OPC1.rOscDiodeTempSet[3][2]
AdL-REF-OPC1.rOscDiodeTempSet[3][3]
AdL-REF-OPC1.rOscDiodeTempSet[3][4]
AdL-REF-OPC1.rOscDiodeTempSet[3][5]
AdL-REF-OPC1.rOscDiodeTempSet[3][6]
AdL-REF-OPC1.rOscDiodeTempSet[3][7]
AdL-REF-OPC1.rOscDiodeTempSet[4][1]
AdL-REF-OPC1.rOscDiodeTempSet[4][2]
AdL-REF-OPC1.rOscDiodeTempSet[4][3]
AdL-REF-OPC1.rOscDiodeTempSet[4][4]
AdL-REF-OPC1.rOscDiodeTempSet[4][5]
AdL-REF-OPC1.rOscDiodeTempSet[4][6]
AdL-REF-OPC1.rOscDiodeTempSet[4][7]
AdL-REF-OPC1.rOscDiodeVoltageAct[1]

AdL-REF-OPC1.rOscDiodeVoltageAct[2]
AdL-REF-OPC1.rOscDiodeVoltageAct[3]
AdL-REF-OPC1.rOscDiodeVoltageAct[4]
AdL-REF-OPC1.rOscDiodeWPDAct[1][1]
AdL-REF-OPC1.rOscDiodeWPDAct[1][2]
AdL-REF-OPC1.rOscDiodeWPDAct[1][3]
AdL-REF-OPC1.rOscDiodeWPDAct[1][4]
AdL-REF-OPC1.rOscDiodeWPDAct[1][5]
AdL-REF-OPC1.rOscDiodeWPDAct[1][6]
AdL-REF-OPC1.rOscDiodeWPDAct[1][7]
AdL-REF-OPC1.rOscDiodeWPDAct[2][1]
AdL-REF-OPC1.rOscDiodeWPDAct[2][2]
AdL-REF-OPC1.rOscDiodeWPDAct[2][3]
AdL-REF-OPC1.rOscDiodeWPDAct[2][4]
AdL-REF-OPC1.rOscDiodeWPDAct[2][5]
AdL-REF-OPC1.rOscDiodeWPDAct[2][6]
AdL-REF-OPC1.rOscDiodeWPDAct[2][7]
AdL-REF-OPC1.rOscDiodeWPDAct[3][1]
AdL-REF-OPC1.rOscDiodeWPDAct[3][2]
AdL-REF-OPC1.rOscDiodeWPDAct[3][3]
AdL-REF-OPC1.rOscDiodeWPDAct[3][4]
AdL-REF-OPC1.rOscDiodeWPDAct[3][5]
AdL-REF-OPC1.rOscDiodeWPDAct[3][6]
AdL-REF-OPC1.rOscDiodeWPDAct[3][7]
AdL-REF-OPC1.rOscDiodeWPDAct[4][1]
AdL-REF-OPC1.rOscDiodeWPDAct[4][2]
AdL-REF-OPC1.rOscDiodeWPDAct[4][3]
AdL-REF-OPC1.rOscDiodeWPDAct[4][4]
AdL-REF-OPC1.rOscDiodeWPDAct[4][5]
AdL-REF-OPC1.rOscDiodeWPDAct[4][6]
AdL-REF-OPC1.rOscDiodeWPDAct[4][7]
AdL-REF-OPC1.rOscHumidityAct
AdL-REF-OPC1.rOscFlowWatchdogWindow
AdL-REF-OPC1.rOscPressure1MaxSet
AdL-REF-OPC1.rOscLaserHeadTempAct[1]
AdL-REF-OPC1.rOscLaserHeadTempAct[2]
AdL-REF-OPC1.rOscLaserHeadTempAct[3]
AdL-REF-OPC1.rOscLaserHeadTempAct[4]
AdL-REF-OPC1.rOscLaserHeadWaterFlowAct[1]
AdL-REF-OPC1.rOscLaserHeadWaterFlowAct[2]
AdL-REF-OPC1.rOscLaserHeadWaterFlowAct[3]
AdL-REF-OPC1.rOscLaserHeadWaterFlowAct[4]
AdL-REF-OPC1.rOscLaserPowerAct[1]
AdL-REF-OPC1.rOscLaserPowerAct[2]
AdL-REF-OPC1.rOscLaserPowerAct[3]
AdL-REF-OPC1.rOscLaserPowerActSum
AdL-REF-OPC1.rOscLaserPowerFromPdLockingDcAct
AdL-REF-OPC1.rOscLockGainSet
AdL-REF-OPC1.rOscLockOffsetSet
AdL-REF-OPC1.rOscLockRefSet
AdL-REF-OPC1.rOscPdLockingDcAct
AdL-REF-OPC1.rOscPdLockingDcActMean
AdL-REF-OPC1.rOscPowermeterWaterFlowAct
AdL-REF-OPC1.rOscPztVoltageAct
AdL-REF-OPC1.rOscTempAct
AdL-REF-OPC1.rOscWaterPressureAct[1]
AdL-REF-OPC1.rOscWaterPressureAct[2]
AdL-REF-OPC1.rXChilConductAct

AdL-REF-OPC1.rXChilFlowAct
AdL-REF-OPC1.rXChilTempAct
AdL-REF-OPC1.rXChilTempSet
AdL-REF-OPC1.sUSER

Comments

Amp. Heatsink Temperature Error
Amp. Diode Temperature Error
Amp. Enable Power Watchdog (>15% deviation)
Amp. Error state positive
Amp. Lid Closed
Amp. Lid opened without Lid override active
Amp. Manual Mode (enables individual control of NPRO and amplifier currents)
Amp. NPRO Running (from NPRO internal diagnostic)
Amp. Lid Interlock Override acitve
Amp. Power Watchdog triggered
Amp.Shutter Closed INPUT signal
Amp. Shutter Open INPUT Signal
Amp. System in automatic mode - Running
Amp. Warning NPRO or water flow
Amp. Water Flow Warning (< x l/min)
Amp. Water Flow Error (< x l/min)
Amp. crystal temperature error
Amp. Lid # of opening
Amp. # of operation hours
Amp. Heatsink Temperature
Amp. Diode current (Diode 1+2)
Amp. Diode current (Diode 3+4)
Amp. Diode current set point (Diode 1+2)
Amp. Diode current set point (Diode 3+4)
Amp. Diode power (internal monitor diode)
Amp. Diode power (internal monitor diode)
Amp. Diode power (internal monitor diode)
Amp. Diode power (internal monitor diode)
Amp. Diode temperature
Amp. Diode temperature
Amp. Diode temperature
Amp. Diode temperature
Amp. Diode temp. control signal
Amp. Diode temp. control signal
Amp. Diode temp. control signal
Amp. Diode temp. control signal
Amp. Diode temp. set point
Amp. Diode temp. set point
Amp. Diode temp. set point
Amp. Diode temp. set point
Amp. Diode voltage (Diode 1+2)
Amp. Diode voltage (Diode 3+4)
Amp. power monitor (behind stage 1)
Amp. power monitor (behind stage 2)
Amp. power monitor (behind stage 3)
Amp. cooling water flow rate
Amp. crystal temperature
NPRO Temperature Error
NPRO operation hours
NPRO LD1 power monitor, sensed
NPRO LD2 power monitor, sensed
NPRO LD1 Temperatures , error signal
NPRO LD2 Temperatures , error signal
NPRO Noise Eater monitor (NE DC signal)

NPRO Xtal Temperature, error signal
NPRO LD1 Temperatures, set
NPRO LD2 Temperatures, set
NPRO LD Temperatures, sensed
NPRO LD Temperatures, sensed
NPRO Xtal Temperature, set
NPRO Xtal Temperature, sensed
NPRO LD current, set
NPRO LD current, sensed

EPICS signal to close the high power laser shutter
hardware HPO laser diode temperature interlock
hardware diode chiller flow interlock
hardware laser diode room interlock box safety button
hardware laser diode room facility interlock
hardware laser diode room, interlock-box key interlock
hardware amplifier laser diode temperature interlock
hardware laser area enclosure safety buttom interlock
hardware LVEA facility interlock
hardware LVEA control box key interlock
no interlock
HPO laser diode temperature contol power supplies on
??? Not clear ???
hardware crystal chiller flow interlock
TwinCad interface error
Alarm Diode Chiller
LRA out of range
OscDBHeatsinkOvertemp
OscDiodeOvertemp
OscEnableLRA
OscEnableLocking
OscEnablePowerWatchdog
OscEnableFlowWatchdog
OscEnableRamp (injection locking)
??? Not longer used…?
OscError
OscFiberSwitchVB not Alive
OscHighPowerShutterClosed
OscLidClosed
OscLidError (were opened)
OscLocked
OscLowPowerShutterClosed
OscOverrideLidInterlock
OscPowermeterWaterFlowError
OscPowermeterWaterFlowWarning
OscPowerwatchdogError
OscWarning one other warnings active
OscWaterFlowError
OscPressure1MaxError
OscWaterFlowWarning
OscServiceMode
XChilAlarm
DChilOpHrs
AdL-REF-OPC1.iOscDB1OpHrs
AdL-REF-OPC1.iOscDB2OpHrs
AdL-REF-OPC1.iOscDB3OpHrs
AdL-REF-OPC1.iOscDB4OpHrs
AdL-REF-OPC1.iOscLidCounter

AdL-REF-OPC1.iOscRelockCounter
HPO crystal chiller operating hours
HPO diode chiller, water conductivity
HPO diode chiller, water flow
HPO diode chiller, water temperature
HPO diode chiller, water temperature, set value
HPO postion of long range actuator
HPO trigger LRA movement (upper boundary)
HPO trigger LRA movement (lower boundary)
HPO set maximum range for LRA with respect to reference point
HPO LRA refence point
HPO LRA step size
HPO Base Plate Temperature, sensor 1
HPO Base Plate Temperature, sensor 2
HPO Base Plate Temperature, sensor 3
HPO Base Plate Temperature, sensor 4
HPO Base Plate Temperature, sensor 5
HPO center wavelength of light from diode box 1
HPO center wavelength of light from diode box 2
HPO center wavelength of light from diode box 3
HPO center wavelength of light from diode box 4
HPO full width half max. of light from diode box 1
HPO full width half max. of light from diode box 2
HPO full width half max. of light from diode box 3
HPO full width half max. of light from diode box 4
HPO first moment of spectral distribution of light from diode box 1
HPO first moment of spectral distribution of light from diode box 2
HPO first moment of spectral distribution of light from diode box 3
HPO first moment of spectral distribution of light from diode box 4
HPO second moment of spectral distribution of light from diode box 1
HPO second moment of spectral distribution of light from diode box 2
HPO second moment of spectral distribution of light from diode box 3
HPO second moment of spectral distribution of light from diode box 4
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO heat sink temperature diode box #, sensor #
HPO pump light monitor at laser head 1
HPO pump light monitor at laser head 2
HPO pump light monitor at laser head 3
HPO pump light monitor at laser head 4

HPO pump light monitor at laser head 1, percentage of initial power
HPO pump light monitor at laser head 2, percentage of initial power
HPO pump light monitor at laser head 3, percentage of initial power
HPO pump light monitor at laser head 4, percentage of initial power
HPO Diode current, diode box 1
HPO Diode current, diode box 2
HPO Diode current, diode box 3
HPO Diode current, diode box 4
HPO Diode current set point, diode box 1

HPO Diode current set point, diode box 2
HPO Diode current set point, diode box 3
HPO Diode current set point, diode box 4
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
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HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode power internal monitor, diode box #, diode #
HPO diode temperature, diode box #, diode #
HPO diode temperature, diode box #, diode #
HPO diode temperature, diode box #, diode #
HPO diode temperature, diode box #, diode #
HPO diode temperature, diode box #, diode #
HPO diode temperature, diode box #, diode #
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HPO diode temperature, diode box #, diode #
HPO diode temperature, diode box #, diode #

HPO diode temperature, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
HPO diode temperature control signal, diode box #, diode #
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HPO diode temperature set point, diode box #, diode #
HPO diode temperature set point, diode box #, diode #
HPO supply voltage diode box #

HPO supply voltage diode box #
HPO supply voltage diode box #
HPO supply voltage diode box #
was ment to give the relative diode power of diode # in DB # (percentage), not used
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HPO humidity in HPO laser box
OSC flow window for the watchdog (0,2l/min)
OSC Water pressure max ()
HPO Laser Head Temperature, head #
HPO Laser Head Temperature, head #
HPO Laser Head Temperature, head #
HPO Laser Head Temperature, head #
HPO Laser Head water flow rate [l/min], head #
HPO Laser Head water flow rate [l/min], head #
HPO Laser Head water flow rate [l/min], head #
HPO Laser Head water flow rate [l/min], head #
HPO Laser Power, backward direction
HPO Laser Power, forward direction (only valid if external shutter is closed)
HPO reading of power meter externally connected
HPO sum of all three power meter
HPO reading of injection locking photo diode DC, calibrated in Watt
HPO loop gain of injection locking servo, set point
HPO error point of injection locking servo, set point
HPO injection locking auto lock reference level, set point
HPO reading of injection locking photo diode DC [Volt]
HPO reading of injection locking photo diode DC, 2s average
HPO water flow through laser internal aux. beam dumps and power meter
HPO injection locking control signal
HPO air temperature in HPO laser box
HPO water pressure inlet at water manifold
HPO water pressure return at water manifold
HPO crystal chiller, water conductivity

HPO crystal chiller, water flow
HPO crystal chiller, water temperature
HPO crystal chiller, water temperature, set value
name of laser operator who put laser into service mode

Comments

L1 / laser diode fiber

one front end fiber bundle (4 fibers plus 2 spare fibers)
six high power laser fiber bundels (with 7 fibres each), 4 bundles required for laser operation,

According to the manufacturer the fibers have a minimum bending radius for long term of 132

, two spare bundles

2 mm and 22mm for short term.

W1, W2 / cooling water for laser diodes and laser heads

W1 termotek chiller - laser room water distribution

3/4 " tube
25 liter / min
T= 18°C
p_in= 4.5 bar

W2 termotek chiller - laser diode rack water distribution

silicon tube

LD: transfer heat via water running through cold plates to water-water chiller (two poin
Xtal: front end no TEC only cooling water of secondary loop, transfers heat to water-w

temperature range Xtal loop	
temperature stability Xtal loop	0.1C TBC
temperature range LD loop	
temperature stability LD loop	0.5C TBC
heat load - Xtal	10kW
heat load - LD	10kW

AdLIGO Laser Calculations	
total electrical heat load (W)	2194.489796
total thermal load (W)	4370.552601

Pump Diode Calculations	
maximum optical output power P_{max} (W)	45
maximum operation current A_{max} (A)	65
maximum operating voltage V_{max} (V)	2
maximum TEC cooling power (W)	346
maximum TEC current (A)	11.3
maximum TEC voltage (V)	49.2
TEC electrical power input (W)	136.5797688
TEC generated heat (W)	51.57976879
heat generated per diode, Q_{diode} (W)	136.5797688

MOPA Calculations	
number of diodes per amplifier	4
amplifier heat load Q_{amp} (W)	546.3190751

Power Supply Calculations	
maximum output voltage (V)	
maximum output current (A)	
maximum output power (W)	600
power factor	0.98
heat load per power supply (W)	12.24489796
number of supplies per MOPA	2
power supply heat load (W)	24.48979592

ıt control) (connects to LIGO facility water)
vater chiller (analog valve control) (connects to LIGO facility water)

maximum input power P_{input} (W)	130
maximum heat generated H_{diode} (W)	85
maximum TEC input power (W)	555.96
coefficient of performance COP	0.622346931
maximum TEC heat (W)	209.96

maximum input power (W)	612.244898

Personnel Calculations	
number of working personnel	4
moderate work heat load (W)	160
total personnel heat load Q_{people} (W)	640