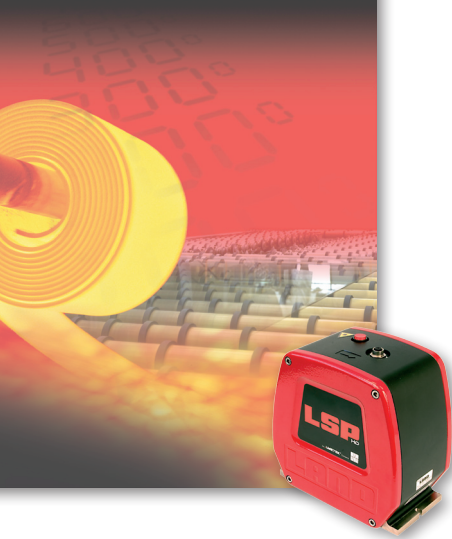


## Thermal Imaging and Temperature Profiles for Continuous Process Monitoring and Quality Control

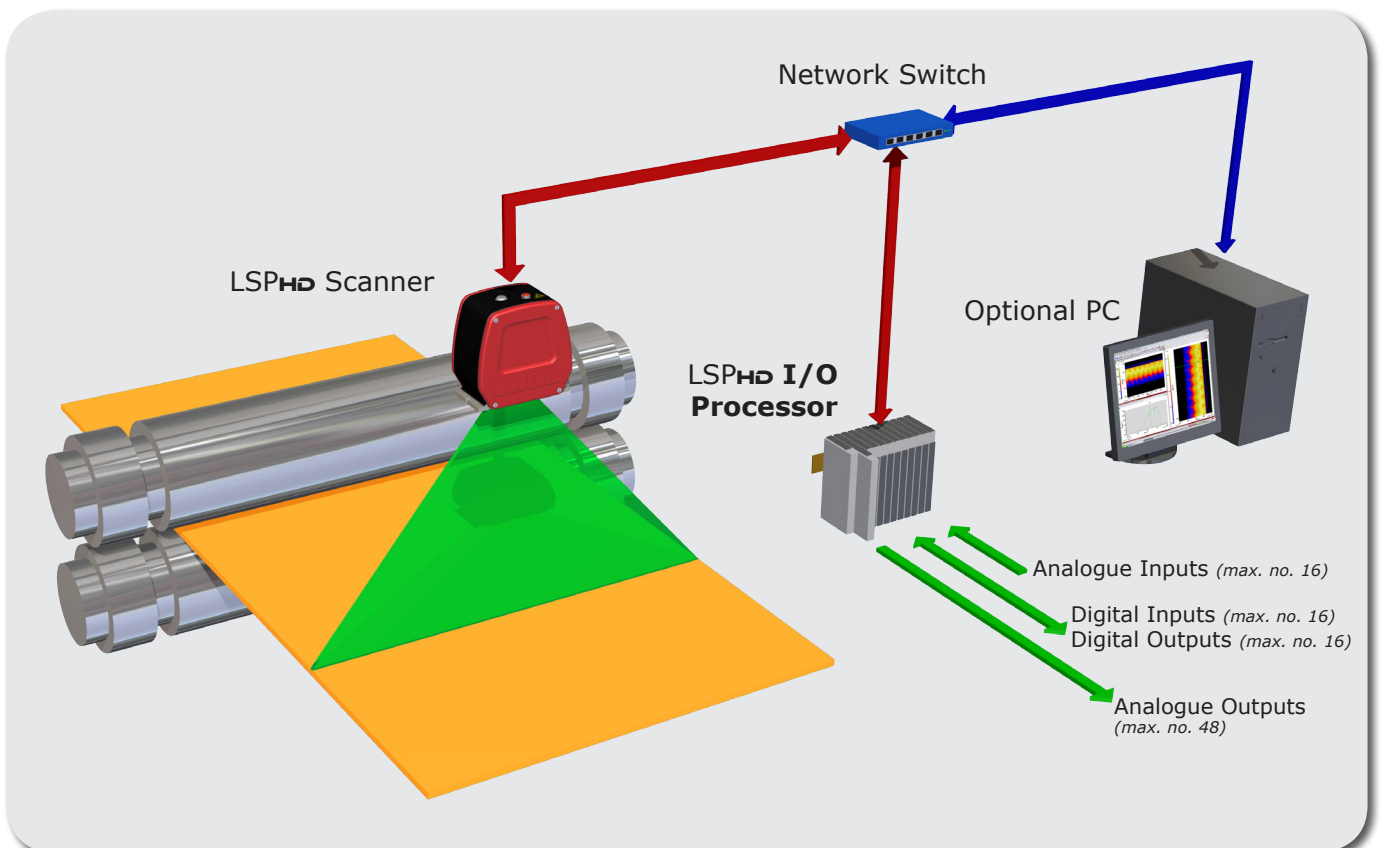


### LSP<sub>HD</sub> I/O Processor

The LSP<sub>HD</sub> I/O Processor is a configurable system to provide access to processed data in the LSP<sub>HD</sub> system. Its compact DIN rail mounted footprint combined with a standard ethernet interface allows it be located away from the harsh measurement environment and mounted discretely in existing equipment cabinets.

#### LSP<sub>HD</sub> I/O - Key Features

- + Flexible configuration to meet individual plant requirements - a single processor can be interfaced with up to 8 LSP<sub>HD</sub> heads
- + Independent operation - the processed data is supplied directly from the LSP<sub>HD</sub> head ensuring data availability independent of PC operation
- + Expansion Capabilities - additional modules can easily be added in the field as the need for additional processed data arises



**Performance Specifications LSPHD I/O Processor****LSPHD I/O Processor Core Module**

Incoming Data Connection:	RJ45 ETHERNET
Alarms:	System Alarm, Remote Client Alarm
System Status:	Indicated via LED

**Analogue Output Module**

Number of Outputs:	4
Maximum No. of Modules:	12
Signal Current:	0 to 20mA
Load:	<350 $\Omega$ (short-circuit-proof)
Measuring Error:	<0.1% (relative to full scale value)
Resolution:	12 bits
Conversion Time:	$\sim$ 250 $\mu$ s

**Digital Output Module**

Number of Digital Outputs per module:	4 x make contacts
Maximum No. of Modules:	4
Rated Load Voltage:	125 V AC / 30 V DV
Ohmic Switching Current:	0.5 A AC/ 2 A DC
Minimum Permitted Load:	10 $\mu$ A at 10 mV DC
Operating Cycles Mechanical (minimum):	1 x 10 <sup>8</sup>
Operating Cycles Electrical (minimum):	2 x 10 <sup>5</sup> (1 A/30 V DC)

**Digital Input Module**

Number of Digital Inputs per module:	4 x make contacts
Maximum No. of Modules:	4
Nominal Voltage:	24 V DC (-15%/+20%)
'0' signal voltage:	-3 to +5 V (EN 61131-2, type 3)
'1' signal voltage::	15 to 30 V (EN 61131-2, type 3)
Input Current Typ.:	3 mA (EN 61131-2, type 3)
Input filter:	3.0 ms

**Analogue Input Module**

Number of Inputs:	2
Maximum No. of Modules:	8
Signal current:	0 to 20 mA
Internal Resistance:	33 $\Omega$ typical + diode voltage
Input Filter Limit Frequency:	33 kHz
Common-mode Voltage U <sub>cm</sub> :	10 V maximum
Conversion Time:	$\sim$ 50 $\mu$ s (fast mode $\sim$ 35 $\mu$ s)
Resolution:	16 bit (incl. sign)
Measuring Error:	< $\pm$ 0.3% (relative to full scale variant)
Surge Voltage Resistance:	35 V DC

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0034 Applies in the UK

Applies in the USA