

LAND

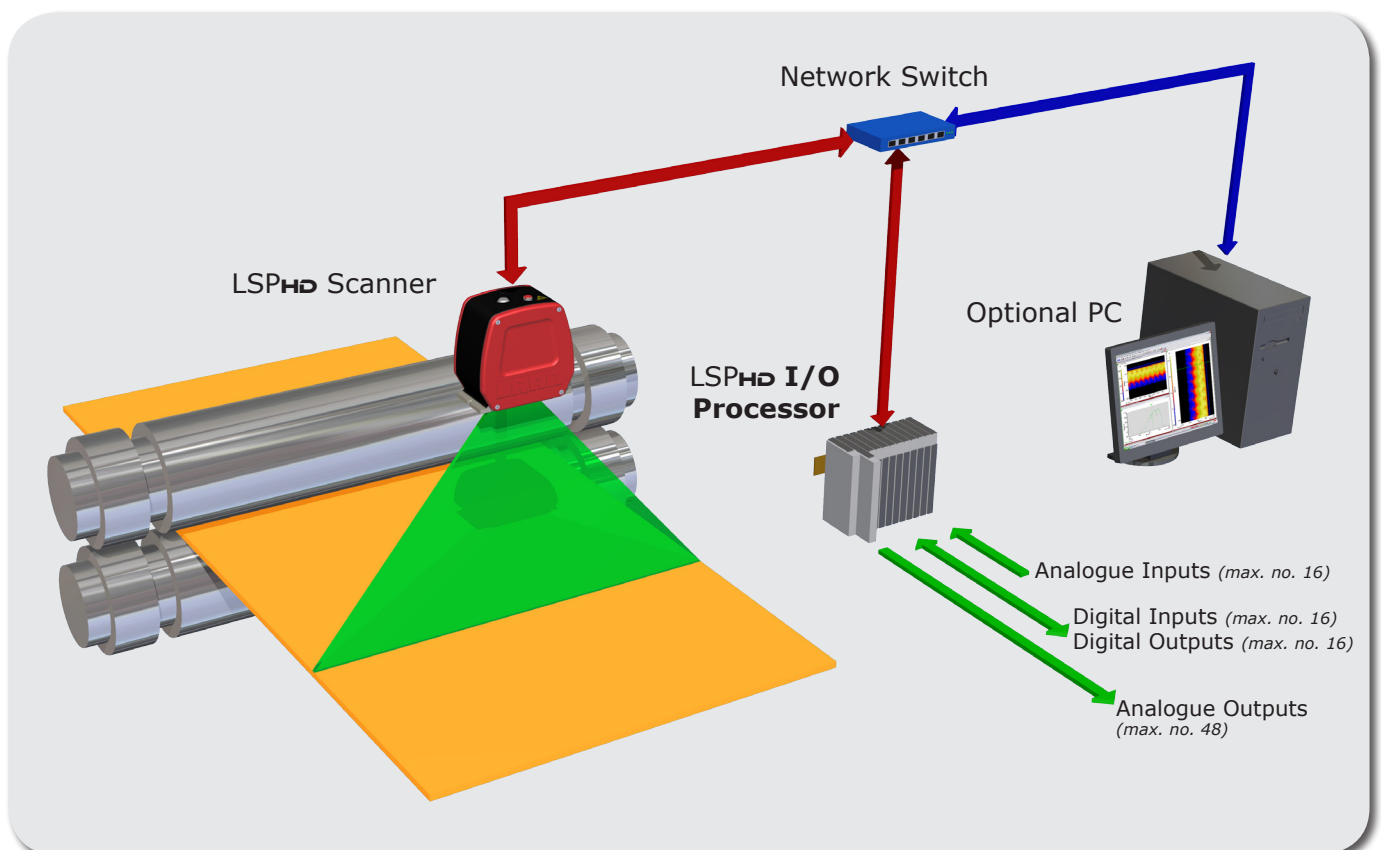
Thermal Imaging and Temperature Profiles for Continuous Process Monitoring and Quality Control

LSP_{HD} I/O Processor

The LSP_{HD} I/O Processor is a configurable system to provide access to processed data in the LSP_{HD} 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_{HD} I/O - Key Features

- + Flexible configuration to meet individual plant requirements - a single processor can be interfaced with up to 8 LSP_{HD} heads
- + Independent operation - the processed data is supplied directly from the LSP_{HD} 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 Ω (short-circuit-proof)
Measuring Error:	<0.1% (relative to full scale value)
Resolution:	12 bits
Conversion Time:	~ 250 μ 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 μ A at 10 mV DC
Operating Cycles Mechanical (minimum):	1 x 10 ⁸
Operating Cycles Electrical (minimum):	2 x 10 ⁵ (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 Ω typical + diode voltage
Input Filter Limit Frequency:	33 kHz
Common-mode Voltage U _{cm} :	10 V maximum
Conversion Time:	~ 50 μ s (fast mode ~ 35 μ 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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**Non-Contact Temperature
Measurement Solutions**

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Applies in the USA



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