- · Interface between the I/O modules and the DCS/PLC
- · Com unit for 80 analog or 184 digital channels
- Communication via PROFIBUS DP
- · HART communication via PROFIBUS DP V1 or service bus
- Configuration via FDT 1.2 DTM
- · Non-volatile memory for configuration and parameter settings
- · Self configuration in redundant systems
- · Permanently self-monitoring
- Outputs drive to safe state in case of failures ٠
- Installation in Zone 2, Zone 22, Div. 2, or safe area
- · Module can be exchanged under voltage

Function

The Remote I/O ComUnit, bus coupler or gateway links intrinsically safe and safe inputs and outputs from sensors and actuators to the PROFIBUS.

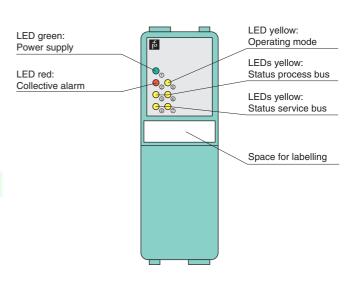
It makes use of all the regular I/O modules and thus transports signals to and from NAMUR and switch type inputs and high power IS solenoids or even power relays as well as sounders, and alarm LEDs.

The system supplies 4-20 mA transmitters and accepts inputs from 20 mA current sources or temperature sensors. It drives I/P converters and proportional valves and positioners.

The ComUnit supports ONLINE configuration as well as redundancy and HART. It is well integrated into all renowned DCS and PLC systems.

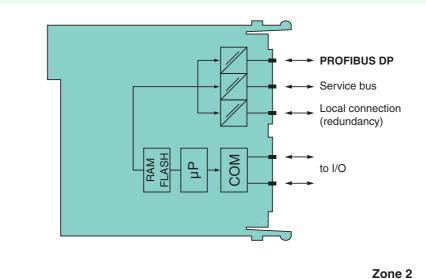


Front view



()

Connection



Div. 2

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

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Supply	
Connection	backplane bus
Rated voltage U _n	5 V DC, only in connection with the power supplies LB9***
Power consumption	2 W
Fieldbus interface	
Fieldbus type	PROFIBUS DP/DP-V1
PROFIBUS DP	
Connection	0 nin Sub Disseket via backalana
Baud rate	9-pin Sub-D socket via backplane
Protocol	up to 1.5 MBit/s PROFIBUS DP/DP V1 read/write services
Number of stations per bus line	≤ 125 (PROFIBUS), ≤ 119 (service bus)
Number of channels per station	≤ 80 analog, ≤ 184 digital (standard configuration)
Number of stations per bus segment	\leq 31 (RS-485 standard)
Number of repeaters between Master and Slave	max. 3
Supported I/O modules	all LB remote I/O modules
Bus length	\leq 1000 m (FOL, 1.5 MBaud),
Dustengui	\leq 1000 m (copper cable, 187.5 kBd), \leq 200 m (copper cable, 1.5 MBd)
Addressing	via configuration software
PROFIBUS address	0 126 (ex works standard: 126)
GSE file	CGV61710.gsd/gse
HART communication	via PROFIBUS or service bus
Internal bus	
Connection	backplane bus
Redundancy	via backplane
Indicators/settings	
	LED 2 (collective alarm): On = internal fault, flashing = no PROFIBUS connection LED 3 (status process bus): flashing = PROFIBUS receive channel active LED 4 (status service bus): flashing = service bus receive channel active LED 5 (operating mode): flashing 1 (1:1 ratio) = active, normal operation; flashing 2 (7:1 ratio) = active, simulation LED 6 (status process bus): flashing = PROFIBUS response channel active LED 7 (status servicebus): flashing = service bus response channel active
Directive conformity	LED 7 (status servicebus). Itasining = service bus response channel active
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1
Conformity	
Electromagnetic compatibility	NE 21
Degree of protection	IEC 60529
Fieldbus standard	IEC 61158-2
Environmental test	EN 60068-2-14
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Damaging gas	EN 60068-2-42
Relative humidity	EN 60068-2-56
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Storage temperature	-25 85 °C (-13 185 °F)
Relative humidity	95 % non-condensing
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks
Vibration resistance	per direction 100 frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min,
	duration 10 sweeps 5 Hz - 100 Hz - 5 Hz
Damaging gas Mechanical specifications	for plugs: 21 days in 25 ppm SO ₂ , at 25 °C and 75 % rel. humidity, device G3
	IP20 (modulo) mounted on backplane
Degree of protection	IP20 (module), mounted on backplane
Connection	via backplane
Mass	approx. 120 g
Dimensions	32 x 100 x 103 mm (1.26 x 3.9 x 4 in)
Data for application in connection with Ex-areas	
Statement of conformity	PF 08 CERT 1234 X
Group, category, type of protection	⟨ɛ́x⟩ II 3 G Ex nA IIC T4 Gc
Directive conformity	

Release date 2015-01-30 13:04 Date of issue 2015-01-30 f35025_eng.xml

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Directive 94/9/EC	EN 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010
International approvals	
UL approval	E106378
IECEx approval	BVS 09.0037X
Approved for	Ex nAc II T4
General information	
System information	The module has to be mounted in appropriate backplanes (LB9***) in Zone 2 or outside hazardous areas. Here, the corresponding declaration of conformity has to be observed. For use in hazardous areas (e. g. Zone 2, Zone 22 or Div. 2) the module must be installed in an appropriate enclosure.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

Versions

Bus couplers are available with different firmware versions. The type code extension * designates the firmware version.

