

Signal Converter

CNVS 4

Product code: PW-122-CSAI4-X







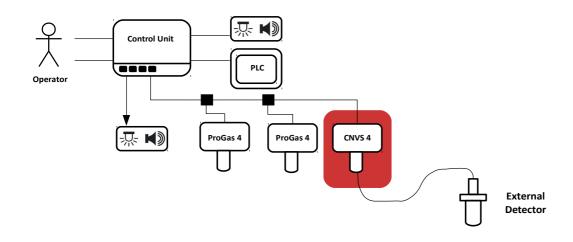
About the product

The Signal Converter CNVS 4 is designed as a component of a Gas Safety System and is intended for operation under harsh environmental conditions of industrial plants with a broad range of ambient parameter variations (high temperatures, presence of corrosive gases, hazardous vapours, moisture and dust).

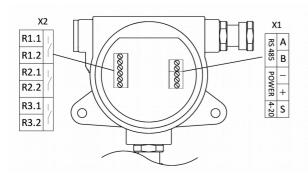
The signal converter is not an independent device, it must be combined with a measuring instrument to make up a typical gas detector. Key advantages of this device is remote operations - an external detectors can be installed far away from the converter at a poorly accessible location.

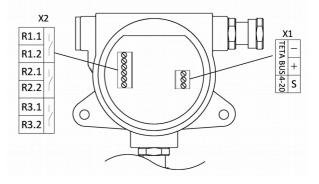
An important feature is also non-invasive calibration and configuration – calibration of the converter and setting of its parameters can be carried out with no need to open the converter enclosure or to shut down any other components of the Gas Safety System.

Location and role of the device in Gas Safety System



Electrical interface

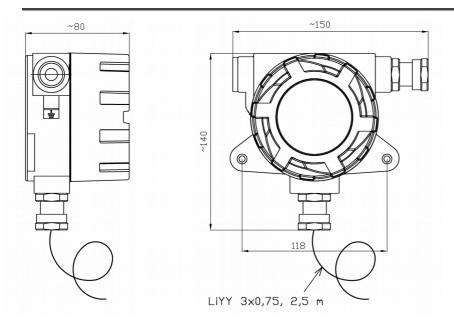




No.	Name	Pin	Description
X1	RS-485	А, В	Signal lines for RS-485 port
	POWER	-, +	Power supply
	4-20	S	Output of the 420 mA current loop
X2	R1.1 – R3.2	_~_	Relays terminals

No.	Name	Pin	Description
X1	TETA BUS	-, +	Signal and supply line Teta Bus port
	4-20	S	Output of the 420 mA current loop
X2	R1.1 – R3.2	_~_	Relays terminals

Dimension





Technical specification

Power supply V _{cc} Power	15 – 50 V 0.5 - 4 W (the value doe the external gas deter current)	
Environment	In operation	Storage
Ambient temperatures TaHumidityPressure	-40 – +85 °C 10 – 90% long term, 0 – 99% short term, without condensation 1013 ± 10% hPa	
IP	IP 63	1
Analog input 4 – 20 mA R _{IN} I _{CC_MAX} (maximum power supply current of the external dectector)	100 Ω 200 mA	
Analog output 4 – 20 mA Output type R _{load_MAX} (source mode) U _{S_MAX} (sink mode)	Sink / source 300 Ω 30 V (max. voltage between pins "S" and "-")	
Digital output parameters Relays	3x Floating contacts, 24 Not protected against ov	

Digital communication parameters	 RS-485, Modbus ASCII, Sigma Bus, 19200 Bd 7E1 Teta Bus 	
Protection class	III	
Dimension • Power cord	2.5 m	
Cable glands • Cable diameter range • External thread	According to the device configuration below M20 x 1.5	
Acceptable cables	$0.5-2.5~\text{mm}^2$ (cable lugs 2 x 1 mm ² or 2 x 0.75 mm ² should be used for double wires)	
Enclosure	Aluminium spray epoxy	
Weight	About 1.2 kg	
Mounting	To the supporting structure, 2 screw holes M6, hole spacing 118 mm with a minimum distance from the wall We recommend using mounting brackets WM8	

Product marking

CNVS 4 Signal Converter PW-122-CSAI4-D-E-DI-AI-WI-G

D	Dispaly	0	Without
Е	Enclosure	AL	Aluminium, spray epoxy
DI	Digital interface	485	RS-485
DI Digital interface	Digital interface	Teta	Teta Bus – under development
AI	Analog interface	0-0	Without
Analog interface	Analog interface	420-PK	4 – 20 mA (sink/source) + 3 x relay
WI	Wireless interface	0	Without
wheless interface	wireless interface	BT	Wireless interface allowing remote detector calibration
G Cable gland	Cable aland	0	Without
	Cable gland	STD.NB03	Nickel plated brass, regulated clamping range 7 – 13 mm





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