



WIRELESS INTRINSICALLY SAFE RPSI PRESSURE CONVERTER

EH-O/08/03.01

TECHNICAL DATA

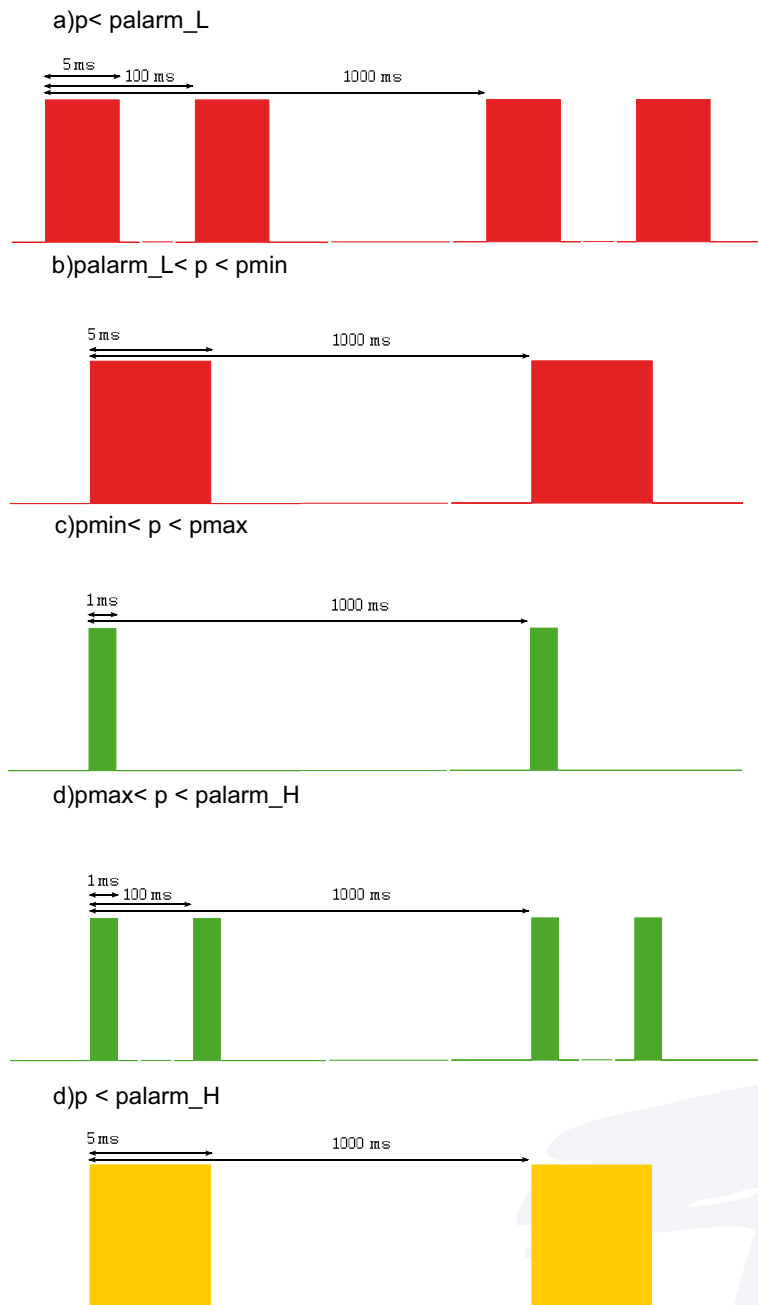
EH-O/08/03.01 /*	
Supply voltage	2,8 ... 3,6VDC
Measuring range:	
Absolute pressure	5MPa, 10MPa, 20MPa, 40MPa, 60MPa, 100MPa
Measurement accuracy	±0,5 % of the measuring range
Radio link(3*)	
Link access protocol	IEEE 802.15.4
Band	2,4 GHz ISM
Modulation	DSSS OQPSK
Power	+2,4dBm (typically 1,6mW)
Sensitivity	-101dBm
Working conditions	
Ambient temperature	-10°C ÷ 40°C
Measured medium temperature	-10°C ÷ 80°C
Medium	water, oil, hydraulic emulsion, compressed air
Sinusoidal vibrations (amplitude, frequency)	0,75 mm, 10÷150Hz
Shocks	up to 10g
Relative humidity (@ 25 °C)	Up to 93%, no condensation
Environmental Protection	IP67
Dimensions	Ø 44,5 x 180mm
Materials	
body, hydraulic	stainless steel 316L
sensor casing with a membrane	stainless steel 316L
Weight	0,6kg

CHARACTERISTICS

The EH-O/08/03.01 /* type pressure converter is the intrinsically safe group I, M1 category, „ia” protection level device, assigned for use inside the mining factory excavations or within such surface installation parts, where the methane and/ or coal dust explosion hazard is probable. The EH-O/08/03.01 /* converter is assigned for measuring of the pressure in the machine or industrial device

pneumatic or hydraulic installations. The EHO/08/03.01 /*/*/XW converter version allows pressure monitoring using the LED indicator, while the EH-O/08/03.01 /*/*/XR converter one ensures the measurement data transmission by radio and also enables a diode indication. The exemplary converter applications are the systems monitoring the mechanical lining support ability and the systems controlling the mining machine hydraulics. The device is assigned for installation inside the mechanical damage protected zones.

EXEMPLARY WORKING STATUS SIGNALIZATION



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