



SI792x P pH/ORP Transmitter, ATEX zone 1, Hart

Product #: LXV500.99.70102

OBSOLETE ITEM
This item is no longer available.

Rugged and intrinsically safe 2-wire transmitter for online measurement of pH/ORP. ATEX zone 1, Hart communication, 14 - 30 V DC.

Analysis of liquids in industry and the wastewater treatment sector

Rugged and durable, thanks to high quality materials

Hart, Profibus, Foundation Fieldbus optional

For use in explosion risk areas

Specifications

Accuracy:	< 0.02 pH units plus sensor error; TC: 0.002 pH/K
Accuracy 2:	< 1 mV plus sensor error; TC: 0.1 mV/K
Accuracy: Current Output:	< 0.3 % of current value + 0.05 mA
Alarm:	Red LED with alarm or HOLD
Certifications:	SI792x;
	ATEX Certification:
	II 2 (1) G Ex ib [ia Ga] IIC T6 Gb
	CE Marked to:
	EMC Directive 2004/108/EC
	ATEX Directive 94/9/EC
	Enclosure: IP65
Communication:	4-20mA Outputs, Hart
Communication Capabilities:	HART with ATEX
Compatible Instruments:	Polymetron/Siemens Sensors
Current Input:	Glass Electrode: < 2 x 10 ⁻¹² A; Reference Electrode <1 x 10 ⁻¹⁰ A
Current Output:	4-20 mA floating
Dimensions (H x W x D):	144 mm x 144 mm x 105 mm

Display:	LCD
Enclosure rating:	IP65
Input Resistance:	Glass Electrode: $> 0.5 \times 10^{12} \Omega$
Input Resistance 2:	Reference Electrode: $> 1 \times 10^{10} \Omega$
Material Enclosures:	Transmitter: PBT (Polybutylene terephthalate)
Measuring Principle:	2-wire transmitter
Measuring Range ORP:	-1999 - 1999 mV
Measuring range pH:	-2.00 - 16.00 pH
Measuring Range Salinity:	0.0 - 45 ‰ (0 - 35 °C)
Measuring Range Temperature:	PT 1000/PT 100: -20 - 150 °C
	NTC: -20 - 130 °C
Memory Backup:	> 10 years Parameters and calibration data (EEPROM)
Mounting:	Wall, panel, or pipe (horizontal or vertical)
Operating temperature range:	-20 - 55 °C
Output span pH:	2 - 18 pH
Outputs:	4-20 mA Output/bus connection, galvanically separated
Parameter:	pH/ORP
pH/ORP input:	For combination or differential pH/ORP sensors (glass/reference electrode input according to IEC 746 part 1, at nominal operating conditions)
Power requirements (Voltage):	14 - 30 VDC
Protection Class:	ATEX Zone 1
Resolution temperature:	0.1 °C
Security levels:	Modifiable passcodes according to FDA 21 CFR part 11 “Electronic Signatures”
Sensocheck:	Sensocheck automatic monitoring of glass and reference electrode (can be disabled). delay: 30 seconds
Sensor monitor:	Direct display of measured values from sensor for validation (electrode potential/temperature)
Signal Average Time:	0 - 120 s Hart
Slope Range:	85 - 103 % (47.5 - 61 mV/pH unit)
Storage conditions:	-20 - 70 °C
Strain Reliefs:	2 knockouts for ½ inch NPT or rigid metallic conduit, 3 knockouts for M20 x 1.5
Temperature Accuracy:	< 0.5 K (<1 K for Pt100; <1 K for NTC >100 °C)
Temperature Compensation:	Linear, -19.99 - 19.99 %/K (25 °C reference temperature)
Temperature Input:	Pt100/PT1000/NTC 300 Ω (selectable), 2-wire connection
Warranty:	12 months
Weight:	1 kg