



## SI792x C Contacting Conductivity Transmitter, ATEX, Hart

Product #:

LXV501.99.70102

### **OBSOLETE ITEM**

This item is no longer available.

Rugged and intrinsically safe 2-wire transmitter for online measurement of contacting conductivity. ATEX zone 1, Hart communication, 14 - 30V 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**

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## Specifications

Accuracy: < 0.02 pH units plus sensor error; TC: 0.002 pH/K

< 1 mV plus sensor error; TC: 0.1 mV/K

< 1% of measured value  $\pm 0.4 \mu\text{S/cm}$

Accuracy: Current Output: < 0.3 % of current value + 0.05 mA

Alarm: Red LED with alarm or HOLD

Calibration Method: Adjustment range 10 K

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                                                                                          |
| Conductivity Accuracy:        | < 1 % of measured value ± 0.4 µS/cm                                                                                 |
| Current Output:               | 4-20 mA floating                                                                                                    |
| Dimensions (H x W x D):       | 144 mm x 144 mm x 105 mm                                                                                            |
| Display:                      | LC display, 7-segment: measured value display conductivity, concentration, resistivity or salinity, and temperature |
|                               | Main display: character height 17 mm; unit symbols 10 mm                                                            |
|                               | Secondary display: character height 10 mm; unit symbols 7 mm                                                        |
| EMC (Immunity):               | EN 61326 (industrial levels)                                                                                        |
| Enclosure rating:             | IP65                                                                                                                |
| Material Enclosures:          | Transmitter: PBT (Polybutylene terephthalate)                                                                       |
| Measuring Principle:          | 2-wire transmitter                                                                                                  |
| Measuring range:              | 0.2 µS - 1000 mS (4-electrode)                                                                                      |
| Measuring range conductivity: | 0.2 µS/cm - 1000 mS/cm 4-electrode                                                                                  |
| 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                                                                                                         |
| Outputs:                      | 4-20 mA Output/bus connection, galvanically separated                                                               |
| Parameter:                    | Contacting Conductivity                                                                                             |
| 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<br><br>sensor for validation (resistance/<br><br>temperature)                |
| Signal Average Time:          | 0 - 120 s Hart                                                                                                      |
| 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:     | reference temperature                                                                                               |
| Temperature Input:            | Pt100/PT1000/NTC 100 kΩ/ NTC 30 kΩ/NTC 8.55 kΩ (betatherm)                                                          |
|                               | 2-wire connection                                                                                                   |

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|-----------|-----------|
| Warranty: | 12 months |
| Weight:   | 1 kg      |