



Series 9203 Sludge level transmitter

Standard Features :

- ✓ 0.25% Accuracy
- ✓ Temperature Corrected
- ✓ 4-20mA 2 wire or 0-10mA 3 wire
- ✓ Sensor to IP68 (100 metres)
- ✓ Transmitter to IP65
- ✓ 6:1 turndown

Optional Features :

- ✓ 3½ digit local indicator
- ✓ Integral power supply

Ancillary Equipment:

- ✓ Battery powered indicators
- ✓ Dual display digital indicators
- ✓ Alarm & control relays

Sludge level Transmitter

The Ashridge range of pressure transmitters have been specifically designed to meet a very high specification to overcome problems encountered in liquid level, tank contents gauging and pressure measurement.

Namely the susceptibility to electrical disturbances, overpressurisation, such as over-filling tanks and in particular the effects of ambient temperature changes on accuracy statements.

The series 9000 are quality, robust units based on the latest electron beam welding techniques and the well proven capsule/LVDT principle of pressure measurement.

High accuracy, long term stability, rugged reliability and easy installation makes the 9203 the obvious choice for Sludge level measurement within the water industry.

Standard ranges are : 0-3, 0-6 and 0-12 metres water gauge.

Wetted parts : 316 stainless steel and inconel capsule.

Order code : Specify length of cable in metres and range in metres water gauge

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SPECIFICATION

Range adjustment: Full output span for any proportion of input pressure span between 16% and 100%. Zero adjustment: $\pm 10\%$ (user adjustable).

Operating temperature range: Sensor: -30 to 90°C. Options to 150°C process temperature, ask for details.

Electronics 25 to 70°C.

Accuracy

Standard 0.2% (inc. the effects of linearity, hysteresis and repeatability)

0.1% available as option.

Zero temperature coefficient:

$< \pm 0.01\%$ per °C, of nominal range between 25 and 70°C on 0.2 and 0.1% models.

Span temperature coefficient: $< \pm 0.02\%$ per °C, of nominal range between 25 and 70°C.

Output signal: 4-20ma 2 wire or 0-10 ma 3 wire.

Response to step pressure change: User adjustable between 0.2 and 2 seconds to 63% of step change.

Supply Voltage: 12-30Volts DC.

Supply entry cable gland size: 4-8mm dia.

Cable: 6 core plus vent tube, Kelvar strain cord and overall screen, polyurethane sheath material, maximum cable length: 100 metres with no extra support wires required.

Long term stability: Will not exceed $\pm 0.1\%$ of nominal input range in a period of 1 year.

Materials of construction:

Sensor: 316 stainless steel and Inconel capsule or diaphragm. Electronics mounted in Polyester or optional enamelled Aluminium terminal box to IP65.

OPTIONS/ORDERING CODE

9203/

9203 Sensor with stand-off legs

9203/x3

Material and nominal range of capsule in metres water gauge, i.e. Inconel 3 metres w.g.

Nominal ranges: 1, 2, 10, 50, 100 and 200 metres water gauge.

9203/x3/10

Specify cable length in metres, i.e. 10 metres.

9203/x3/10/0.948

Specify factory set range in metres water gauge i.e. 0.948 metres w.g.

9203/x3/10/0.948/D2

Special options i.e. D2=5 Digit LCD display (linear only),

PSU = Integral 85-265 Vac or Vdc

EN50081-1

EN50082-1



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