



ELIS PLZEŇ a.s.



ULTRASONIC FLOW METERS SONOELIS SE 4015T

SONOELIS SE 4015T

Ultrasonic flow meters of the SONOELIS SE 4015T (single-beam) type series are intended for flow-rate measurements of high pressure conductive, non conduction liquids. Ultrasonic flow meters operate on the principle of measuring the difference in transit times of ultrasonic waves travelling in and against the fluid flow direction. The meter consists of a flow sensor and associated electronic unit. Ultrasonic flow meters offer excellent user value in their high measurement accuracy over a wide range of measured values, long-term stability, negligible hydraulic losses and the capability of measuring the flow-rate of virtually any liquid medium. The electronic unit supplies power to both ultrasonic probes and, via its outputs, communicates the flow-rate data to other co-operating data processing systems. The meter are supplied in remote electronic unit. Regarding operator comfort and optional accessories, the meter can be delivered in three configurations: COMFORT (including a display unit and control keyboard, signal outputs), STANDARD (including a display unit, signal outputs) or ECONOMIC (signal outputs only). Electronic is fitted into a plastic box.

METER SPECIFICATIONS

| | |
|------------------------------------|---|
| nominal diameter DN | 80, 100, 125, 150, 200 |
| max tested pressure (bar) | 63, 100, 160, 180, 240 |
| measurement accuracy, SE 4015T | $\pm 1.0\%$ for velocity of the measured liquid $v > 1\text{ m/s}$ |
| temperature of measured liquid | 0 to 150°C |
| ambient temperature | 5 to 55°C |
| display unit | alpha-numerical LCD unit, two lines of 16 characters each |
| power supply | 90 to 250VAC, 50 to 60Hz (AC) |
| protection class (electronic unit) | IP65 - remote version |
| protection class (sensor) | IP67 |
| outputs (insulated) | pulse type, one pulse per 0.1 to 1,000 litres frequency type, 0 to 1,000Hz or 10kHz (0 to q_s) relay type 24VAC/0.1 A |
| optional accessories | communication line RS 485 current output 0 (4) to 20mA (0 to q_s) mass flow-rate measurement capability flow-rate measurement in two directions |

METER VERSION, CONFIGURATION AND TYPE DESIGNATION

| | | | |
|--------------------|----------|----------|----------|
| version | REMOTE | | |
| configuration | ECONOMIC | STANDARD | COMFORT |
| single-beam sensor | SE 4011T | SE 4013T | SE 4015T |

REMOTE ELECTRONIC UNIT

