

SONOELIS SE 806X



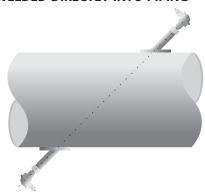
SONOELIS SE 804X, SE 806X

Ultrasonic flow meters of the SONOELIS SE 804X (single-beam) and SE 806X (dual-beam) type series for direct assembly of ultrasonic probes into piping are intended for instantaneous flow-rate and fluid volume measurements in fully-flooded piping of big dimensions. The measuring method used allows meter application in piping systems with any type ofliquid (electric conductive and non-conductive) permitting propagation of ultrasonic waves. On prior consultation and agreement with the manufacturer, the meter can even be used for measurement of aggressive fluids. 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 associated electronic unit includes the necessary hardware and software for communication with superordinated control systems. To ensure high measurement accuracy, follow the manufacturer's recommendations regarding the socalled theoretical meter calibration. The meter consists of a flow sensor to be embedded into the fluid piping and associated electronic unit, providing power for the ultrasonic probes and processing the ultrasonic signals. Regarding operator comfort and optional accessories, the meter can be delivered in three configurations: COMFORT (including a display unit, control keyboard and signal outputs), STANDARD (including a display unit and signal outputs) or ECONOMIC (including signal outputs only). The measured values ofinstantaneous flow rate and fluid volume are shown on the meter display. The electronic unit is fitted into a sealed plastic box. The measuring ranges can be modified using a notebook computer.

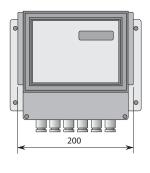
METER SPECIFICATIONS

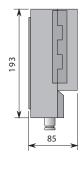
nominal diameter of piping DN	DN 200 to DN 1200
angle of measuring beam	45° for DN 200 to DN 800 60° over DN 800 to DN 1200
measurement accuracy, SE 804X	± 2% for velocity of measured liqui d v > 0.5m/s
measurement accuracy, SE 806X	± 1% for velocity of measured liqui d v > 0.5m/s
nominal pressure PN	16, 40
temperature of measured liquid	0 to 150°C
ambient temperature	5 to 55℃
display unit	alpha-numerical LCD unit, two lines of 16 characters each
power supply	90 to 250 V AC, 50 to 60 Hz
protection class (electronic unit)	IP 65
protection class (probes)	IP 54
ultrasonic probes SE 804X	2 pcs US 2.0 - manufactured by ELIS PLZEÒ a.s.
ultrasonic probes SE 806X	4 pcs US 2.0 - manufactured by ELIS PLZEÒ a.s.
probe fitting	directly into piping
probe connecting cables	standard length, 8m extended length, up to 100m
outputs (insulated)	pulse type, one pulse per 25 to 1,000 litres frequency type 0 to 1,000Hz relay type 24VAC/0.1A
optional accessories	communication line RS 485 current output 0 (4) to 20mA, insulated mass flow-rate measurement capability extended fluid temperature range, up to 180°C flow-rate measurement in two directions probe protection class IP 68

ULTRASONIC PROBES US 2.1 WELDED DIRECTLY INTO PIPING



ELECTRONIC UNIT







ELIS PLZEN a. s., LUCNI 15 P. O. BOX 126, 304 26 PLZEN CZECH REPUBLIC Phone: +420 377 517 711 FAX: +420 377 517 722 e-mail: sales@elis.cz Http://www.elis.cz WELKO Av. Providencia 2330, Of. 63 +56 9 3174 3870 / +56 9 3427 0017 ventas@welko.cl - www.welko.cl