

SONO 3500 CT

Tender text

General description:

Ultrasonic flow sensor SONO 3500CT is especially designed for heating, cooling or combined heating/cooling application in local and district energy systems can be used in conjunction with type approved heating/cooling energy calculator (e.g. Infocal 9) to from combined heating/cooling energy meter for larger applications. SONO3500CT is flow sensor for remote or compact system, with MID certificate, accuracy class 2, carbon steel flow sensor, transmitter, operating instruction and calibration report. For remote system are included also 4 transducer coaxial cables and mounting kit with bracket and terminal box.

Flow sensor:

Shall use ultrasonic measuring technology with measuring frequency of 15Hz with mains supply and 0.5 Hz with battery supply. The flow sensor should be able to measure water heating or cooling conveying liquids, has easy one button forward display, offers long term stability and no pressure drop.

- Nominal flows: qp 60 /100 / 150 / 250 / 400 / 560 / 750 / 950 / 1475 / 2150 / 2900 / 3800 / 5000 / 6000 / 9000 m3/h
- Flange DN100, DN125, DN150, DN200, DN250, DN300, DN350, DN400, DN500, DN600, DN700, DN800, DN900, DN1000, DN1200 m3/h
- Protection class IP67 according to EN 60529 and DIN 40050
- Temperature range for compact version 2 to 120°C and for remote 2 to 200°C
- Operating pressure 16/25/40 bars
- Standard dynamic range (qi/qp) of 1:50 according to MID EN 1434 class 2
- Cable length between flow sensor and transmitter (remote option) 5 / 10 /20 / 30m
- Optical interface is IRDA with ModBus RTU protocol
- 2 pulse outputs
- Pulse output values
 - For nominal flows 60 /100 / 150 m3/h pulse value is 2.5 l/p
 - For nominal flows 250 / 400 / 560 / 750 m3/h pulse value is 10l/p
 - For nominal flows 950 / 1475 m3/h pulse value is 50l/p
 - For nominal flows 2150 / 2900 / 3800 / 5000 / 6000 / 9000m3/h pulse value is 100l/p
- 1st verification certificate for each meter shall be available upon request
- Power supply options:
 - 3.6V DC Lithium battery
 - Mains supply 115 or 230V AC, including 3.6V single battery backup
- Battery lifetime up to 6 years