

4204 Ultrasonic flow transmitter to use in open channels with narrowing or weir



Measure Data	
Measuring ranges	Flow: 0 ÷ 9999 mc/h - Level: 0.30 ÷ 5.00 mt. - Temperature: 0 ÷ 100 °C
Accuracy	± 0.2% F.S.
Measuring Unit	Flow: mc/h, lt/sec – Level: mt, cm, mm – Temperature: °C
Types of devices / exponents for PMD (primary measuring device) flow calculating	RETTANG (rectangular spout) / TRAPEZ (Cipolletti spout) / VENTURI (Venturi channel) / PARSHALL (Parshall channel) / LEOPOLD (Leopold Lagco channel) / STRAM. V (V spout) / BAZIN (rectangular abolished) / OTHER (freely programmable exponent) Table with 20 rows for free programming
Nr.2 Totalizers	Absolute: 9 digits- stored on a non-resettable Flash PROM Partial: 9 resettable digits
Hardware Data	
Display	128x64 Graphic display LCD STN backlighted – Simultaneous display of: Instant Flow (absolute + bargraph per percentuale fondo scala), totalized volume, Temperature, State of the digital outputs, alarm events. In scrolling : Level, State of the analogue outputs , Resettable totalizer
Controls	6 Buttons
DATA LOGGER	Internal Flash 4Mbit Memory
Serial Outputs	nr.1 RS485 MODBUS RTU with Galvanic Separation
Analogue Outputs	nr.2 Programmable outputs with Galvanic Separation 1 st output: Flow / Temperature - 2 nd output: Flow / Temperature / Level
Relay Outputs	nr.5 for thresholds - nr.1 for alarm – (max. Load 1A at 230Vac resistive)
Digital Inputs	nr.5 Programmable
Power Supply	90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) - Isolation Transf. 4KV
Average absorption	< 12W
Dimensions / Weight	Dimensions: (L x H x P) 144x144x122,5mm - Weight: 1 Kg

Measure Storage	Instant Flow	Totalized Volume
Storing interval	1/2/5/10/15/20/30/60 min.	5/10/30 min. 1/2/6/12/24 h.
Type	Circular / Fill	Circular / Fill
Visualization	Graphics: minimum, maximum and average values of the interval and zoom function	Tabular

Analogue Outputs	Primary	Secondary
Measure	Flow / Temperature	Flow / Level / Temperature
Type	0.00 ÷ 20.00 mA / 4.00 ÷ 20.00 mA	
Range	Programming Limit: Inferior / Superior	
Max. Load	500 Ohm	
Alarm output: NAMUR	2.4 mA (with 4/20mA Range)	
nr.5 Relay Outputs		
Function – selectable	Thresholds	Impulses
Programming	ON-OFF with hysteresis	Demoltiplicatore: 1,10,100mc/h Durata: 250,500,1000,2000 msec
Alarm		
Function	Echo loss alarm	
Programming	Time Out (echo time lack): 00:00 ÷ 24:00 h	
Operating conditions		
Working Temperature - Storage and Transport	0÷50 °C -25÷65 °C	
Humidity	10-95% non-condensing	
Mechanical protection	Closed: IP66 EN60529	
EMI / RFI	CEI-EN55011 – 05/99	

S425/C Ultrasonic transducers 0,3...5m, 0,4...8m



Materials:	PVDF/PCV Body
Thread:	S425/C 5meters: 1"BSP M and 1,5"BSP M S425/C 8meters: 1"BSP M and 2"BSP M
Measuring ranges:	S425/C 5meters: 30cm - 500cm S425/C 8meters : 40cm - 800cm
Measuring method:	Ultrasonic with automatic temperature compensation
Mechanical protection:	IP67 (IP68 optional)
Electrical connection:	IP67 connector with 5m cable.
Power supply / Absorption:	24Vdc / 2W
Working Temperature:	-10 °C +75 °C
Working Pressure:	from 0,5bar to 1,5bar
Current output:	optional (500 ohm max load)
Accuracy:	+0,2% of the measured distance, not better than 2mm
Resolution:	1mm
Digital communication:	Standard Modbus RTU
Emission angle:	S425/C 5 meters: 14°+-1° S425/C 8 meters: 10° +-1°