

M-T AN130

Hydraulic Sensor
for hot water up to 130 °C, PN 16 and PN 25



M-T A N

Special Features

- Fully dry dial meter with no gear reduction in the wet chamber
- Wear resistant tungsten carbide / sapphire bearing
- Magnetic coupling protected against magnetite
- Pulse sender safe from interference
- Easy to repair construction with external regulation

Description

The hydraulic AN 130 sensors are multi-jet dry dial vane impeller hot water meters, suitable for installing in central heating and cooling systems and remote warning systems. With their built-in pulse sender they are approved as a volume measurement element for heat meters.

Versions for horizontal, rising and falling flow directions with screwings (PN 16) or flanges (horizontal flow, PN 25) are available.

Pattern Approval

22.16

95.07

Technical Data

Display:	00000.000 m ³
Working pressure:	16 bar 25 bar (Special version)
Working temperature:	5 ... 130 °C
PTB-Approval:	Class B
Pulse sender	
Pulse sender:	Reed switch permanently installed
Cable length:	2 m
Load capacity:	max. 0.1 A, max. 28 V
Contact resistance:	max 105 Ohm
Pulse value:	10 Litres / pulse For other pulse values see special versions

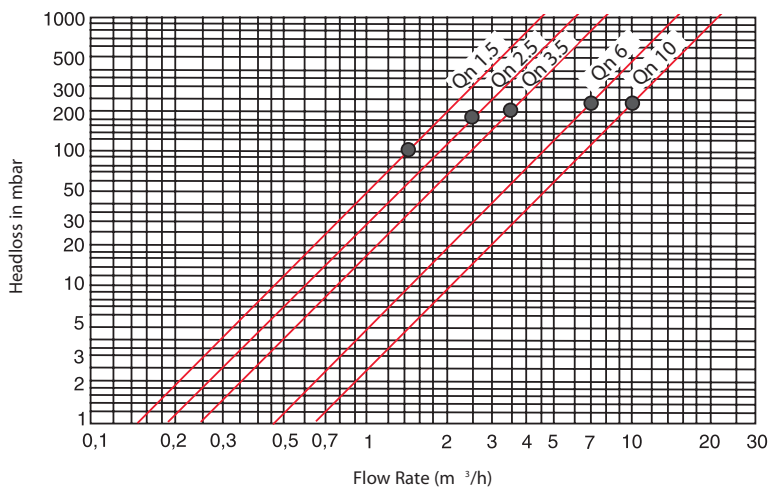
Materials

Casing:	Brass, painted
Impeller:	Plastic
Impeller cup:	Plastic
Bearing pin:	Tungsten carbide
Impeller bearing :	Sapphire
Magnetic coupling:	Ceramic permanent magnets

Performance Data

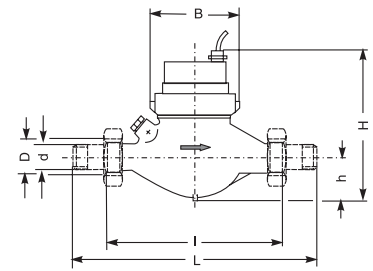
Nominal-size	Q_n		1,5	2,5	3,5	6	10
Continuous loading	Q_n	m ³ /h	1,5	2,5	3,5	6	10
Max. flow rate (short-term)	Q_{max}	m ³ /h	3	5	7	12	20
Transitional flow-rate	Q_t	l/h	120	200	280	400	800
Minimum flow rate	Q_{min}	l/h	30	50	70	120	200
Pressure drop at	Q_n	bar	0,11	0,18	0,2	0,25	0,25
Flow rate at 1 bar pressure drop		m ³ /h	4,7	6,0	8,1	12,5	20,5

Typical Head Loss Curve



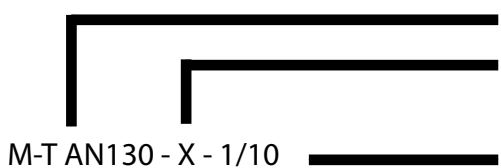
Dimensions and Weights

Horizontal installation for threaded fittings, Type M-T AN 130						
Size marking	Q_n	m ³ /h	1,5	2,5	3,5	6 10
Nom. connection size	DN	mm	20	20	25	32 40
		inches	$\frac{3}{4}$	$\frac{3}{4}$	1	$1\frac{1}{4}$ $1\frac{1}{2}$
Pipe connection thread ¹⁾	d	inches	R $\frac{3}{4}$	R $\frac{3}{4}$	R 1	R 1 $\frac{1}{4}$ R 1 $\frac{1}{2}$
Meter stub thread ²⁾	D	inches	G 1	G 1	G 1 $\frac{1}{4}$	G 1 $\frac{1}{2}$ G 2
Installed length without fittings	I	mm	190	190	260	260 300
Installed length with fittings	L	mm	288	288	378	378 438
Height	H	mm	155	155	170	170 190
Height	h	mm	36,5	36,5	103	103 140
Width	B	mm	97	97	103	103 140
Weight of meter without fittings		~kg	2,0	2,1	2,9	2,9 5,2
Weight of meter with fittings		~kg	2,5	2,6	3,6	3,6 6,5



Ordering Notes

Horizontal version for threaded fittings
Pulse sender, 10 Litres/pulse, Certified Class B

 Instruments' code
Size
Pulse value

M-T AN130 - X - 1/10

Standard pulse values 1 pulse / 10 Litres
Pulse on request 1 pulse / 1 litre or special



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