



HYDROCAL M3

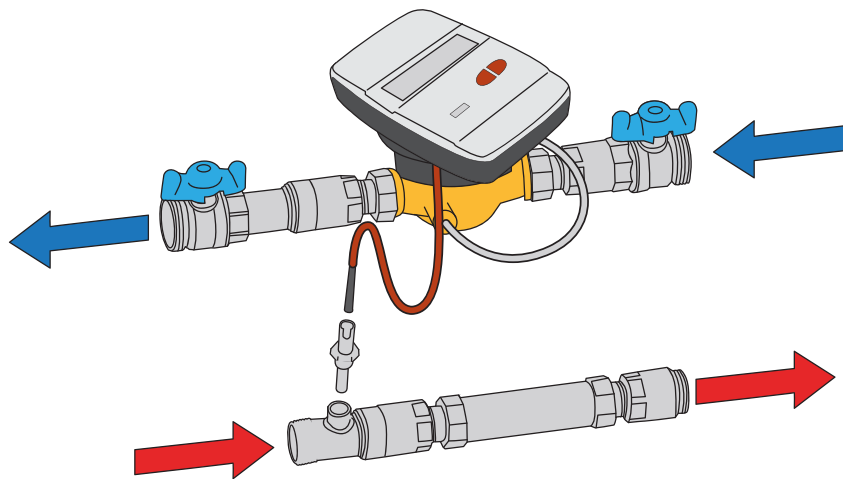
Compact thermal energy meter

HYDROCAL-M3 is a compact heat/BTU meter capable of measuring the amount of energy used for heating and/or cooling individual utilities served by a centralized system.

The processing of the data related to the difference between the thermal fluid flow and the return (DT), along with the data relating to the volume of thermal fluid used by each utility, allows the calculation of the exact amount of energy consumed.

Approved according to the MID 2004 /22/CE MI004 and the EN1434 standard.

The heat meter HYDROCAL-M3 uses an innovative acquisition system to detect the turbine revolutions based on the inductive principle. This prevents for the instrument from being magnetically fruaded and guarantees long term reliability.



Standard version for installation on the return pipe.
Version for installation on the flow pipe available upon request.

TECHNICAL FEATURES

Nominal diameter	DN15 G 3/4"	DN15 G 3/4"	DN20 G 1"
Length	110 mm	110 mm	130 mm
Nominal flow rate	0.6 m ³ /h	1.5 m ³ /h	2.5 m ³ /h
Max flow rate	1.2 m ³ /h	3.0 m ³ /h	5.0 m ³ /h
Min flow rate	24 l/h	30 l/h	50 l/h
Accuracy	Class 2	Class 2	Class 2
Range Qp/Qi (H/V)	25	25	25
Environmental class	A (E1; M1)	A (E1; M1)	A (E1; M1)
Pressure lost at Qp	≤ 0.25 bar	≤ 0.25 bar	≤ 0.25 bar
Nominal pressure	16 bar	16 bar	16 bar
Temperature measuring range (Heating)	5 – 90 °C	5 – 90 °C	5 – 90 °C
Temperature difference range (Heating)	3 – 70 K	3 – 70 K	3 – 70 K
Temperature measuring range (cooling)	0.2 – 24°C	0.2 – 24°C	0.2 – 24°C
Calibration temperature (cooling)	0.2 – 20K	0.2 – 20K	0.2 – 20K
Temperature sensor type	PT 1000	PT 1000	PT 1000
Cable length for the temperature sensor	1.5 m	1.5 m	1.5 m
Power supply	Lithium battery	Lithium battery	Lithium battery
Max. battery life basic version / radio version	10+1 years / 6 years	10+1 years / 6 years	10+1 years / 6 years
Protection class	IP54	IP54	IP54
Display level	6	6	6
Display	LCD 8 digits + icons	LCD 8 digits + icons	LCD 8 digits + icons
Energy Units	MWh (GJ on request)	MWh (GJ on request)	MWh (GJ on request)



DESIGNING, PRODUCING AND DISTRIBUTING SOLUTIONS FOR OVER 25 YEARS

B METERS is an Italian company that has been designing, producing and distributing instruments and solutions for measuring the consumption of water and thermal energy used for heating and cooling, for over 25 years.

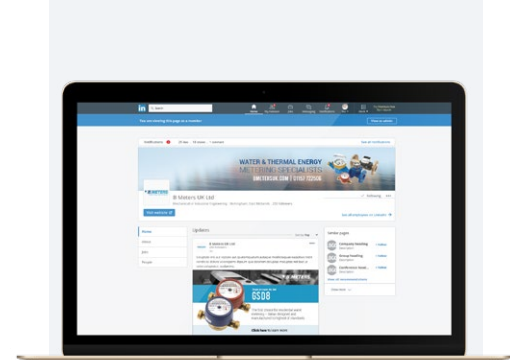
The yearly production currently exceeds 2M units, putting B METERS in a leading position both at national and European level.

The product range includes turbine (velocity) type single and multi-jet water meters with mechanical or magnetic transmission, Woltmann meters, irrigation meters, flow meters, thermal energy meters and heat cost allocators with direct reading, or complete with integrated modules for the remote transmission of the consumption data.



EN 1434

EN 834



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THE BMETERS RANGE



WATER METERS



THERMAL ENERGY METERS



READING SYSTEMS



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