

HCM4008 Modbus Heat Meter

KEY FEATURES

- Calculates the energy used in heating or cooling systems
- The complete heat package falls within the combined component accuracy of Class 1-levels
- 'On site' programming facility and Zapper Tool key option for reprogramming
- Manufactured to EN 1434 - 2007 Parts 1 - 6
- Suitable for all billing applications - including Renewable Heat Incentive
- Open collector pulsed output - (with grab circuit) - as standard
- Digital high accuracy temperature sensors with ROM chip
- Sensors do not need to be in matched pairs
- Modbus to EN15745-2/4 and 2007



HCM4008

Case	Heavy duty nylon case with Perspex front viewing panel
Case Front Panel	Two programming buttons located on the front panel. Communication LED & Pulse LED
Size	124mm W x 171mm H x 95mm D
Mounting	Wall mounted
Case Weight	0.9kg

USED with HOT & COLD Water Meters
Screwed and Flanged

SPECIFICATIONS

Voltages	230 volts (standard) 110 volts (export only) 24 volts
LCD Display	16 Characters - single line
Environmental Class	Conforms to the operational requirements of both Class B Domestic Outdoor Installations) Class C (Industrial Installations)
Temperature Operating Range	0°C to 90°C
Accuracy Class	Class1—complete unit - falls within Accuracy Class1 MID (2004) EN 1434 2007 Parts 1- 6 2016 OIML R75

DETAILS AND DIMENSIONS

Temperature Sensors	Smart Heat Fixings
Long Distance Sensors	(LD Version). Perfect data accuracy transferable up to 100 meter cable lengths manufactured in 5, 10, 20, 50 and 100 metres
Security Labels	No peel permanent security labels 45.7 x 25.4mm available on request.
Smart Heat Pipe Fittings	<p>Flow parts 15-50mm screwed connections. Conex T pieces suitable for copper/ plastic/steel pipes with threaded immersion pockets</p> <p>Flow Parts 50-200mm Flanged to PN16. Threaded welding boss and threaded immersion pockets suitable for steel pipes</p> <p>Multi Jet Dry Dial Turbine suitable for Vertical or Horizontal mounting. Screwed male connections. Maximum temperature 40°C Chilled and heating 90°C</p> <p>Manufactured to EN 4064. Anti magnetic security pulsed output</p> <p>Mid Compliance TCM/10 - 4792</p>
Low flow error compensation	Software compensation greatly improves accuracy at low flow rates
Power Consumption	Idle 0.03amps. Operational 0.1amp. The repeatable nature of the output over temperature for band gap - based sensors means that an accuracy factor of up to .02% is possible
CE Conformity	Conforms to Low voltage directive 73/23/EEC
Conformity	Conforms to both RoHS and WEEE directives
Pulse Output	Open collector - with grab circuit - bandwidth 50ms - 10 pulses per kWh/mWh
Wiring	16 way terminal block on PCB. Removal of terminal case cover is required sealable terminals on completion of wiring
Programming	Two buttons on front case - scroll and accept
Re-programming Option	Zapper Tool
Operational Error Codes	<p>ERROR 1 No sensors connected or shorted to 5 volts</p> <p>ERROR 2 Data shorted to 0 volts</p> <p>ERROR 3 Data transmission error</p> <p>ERROR 4 Only 1 sensor connected</p> <p>ERROR 5 Sensors should come in a pair, ie. 1 x Hot & 1 x Cold. Error indicates that sensor pairing is incorrect ie. 2 x Hot or 2 x Cold</p>

FOR FLOW PARTS, PLEASED REFER TO OUR TOMi and MAXi RANGES