

Datasheet Ultrasonic Compact Heat Meter Model 773

APPLICATION

- Static compact energy meter using ultrasonic technology

FEATURES

- 1st. approval in Europe for ultrasonic meter with dynamic range of q_i/q_p 1:250 in class 2 (q_p 1.5 / 2.5 / 6.0 m³/h)
- Lithium battery (lifetime 12 years, 16 years optional), 230 V AC or 24 V AC main supply
- Housing up to 190 mm thread and flange (PN 16 / PN 25)
- Can be used as cooling, heating or combined climatic meter
- Measuring accuracy meets the requirements of EN1434 class 2 and 3

SPECIAL FEATURES

- Power save mode
- Remote reading via M-Bus, Radio, RS232 or optical interface
- Optional Plug & Play modules

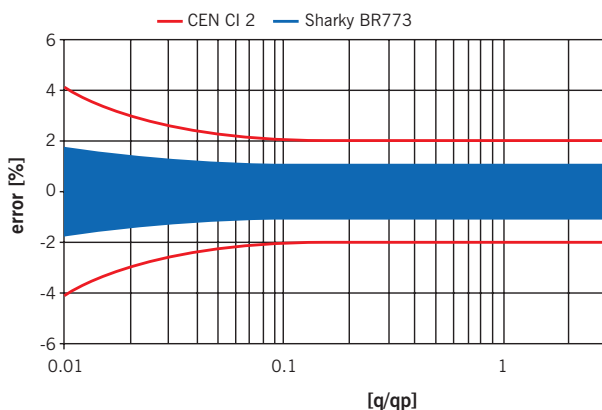
CALCULATOR

The calculator contains all the necessary circuits for recording of flow rate, temperature and data display. The meter can be conveniently read from a single-line 7-digit display with units and symbols. A pushbutton provides user-friendly control of the various display loops.

SHARKY is equipped as standard with a ZVEI optical interface with the M-Bus protocol as per EN 1434.



MEASURING ACCURACY TO EN 1434 CLASS 2



The following communication modules are available as options:

- Radio Module
- M-Bus module to EN 1434
- RS 232 module

The Radio module communicates a list of predefined data records.

PULSE INPUT

Two additional pulse inputs are available. The pulse value and the unit is configurable for energy, water, gas or electrical.

MODULE COMBINATIONS

The following module combinations for data transmission are available ex works or for retrofitting in the field.

Function modules:

- Pulse input module
- Pulse output module
- Pulse input radio output
- Pulse input M-Bus output
- Pulse output

Data Collection Methods & Billing Options

DATA COLLECTION METHODS

So you have purchased and installed your Ultrasonic Heat Meter or Meters.

How are you going to read them?

Vital Energi are please to offer several methods of data collection to suit all applications,. Furthermore all our data collection methods are compatible with our bespoke bill management system Vbill.

DATA COLLECTION

Various communication modules are available.

COMMON COMMUNICATION MODULES

- A. Radio Output Module
- B. Pulse Output Module
- C. M-Bus Output Module.

RADIO COMMUNICATION

Radio communication is a fantastic way of getting meter readings and other data from the meters. Available in 2 forms Walk By or Fixed. The meters transmit a pre-determined data packet at regular intervals. This radio packet is received by either a mobile or fixed receiver. Once the data is collected from all meters the data is downloaded to a readings computer for analysis and billing.

PULSE OUTPUT

Most commonly used to communicate to pre-payment systems or BMS (Building Management Systems). The pulse output module is emits a pulse of electricity to a pulse counter for every KWh of heat used. The total pulses are then added together to give utility consumption.

M-BUS COMMUNICATION

This is the traditional method of reading values back to a central point. Each meter is hardwired back to a collection unit called a Hydrocenter. The Hydrocenter stores the readings until the memory is read by a computer directly connected or connected remotely via modem.

BILLING

Billing for utilities is not only for the likes of the major utility companies.

With today's energy conscious society we are all more accountable for the energy which we consume. In fact, many local authorities, housing associations and developers are specifying sub meters for heat, electricity and water usage. Using Vital Energi's range of meters and communication methods all these utilities can be measured and billed for from one centralised system.

SECURITY

All heat meters may be sealed using bespoke Vital Energi seals. These seals are pre-numbered for use in the registration and commissioning process.

DESIGN ASSISTANCE AND PROJECT MANAGEMENT

Vital Energi understand that you may not be that familiar with these systems. That's where we can help and advise you on the best fit system for your customer.

When it comes installation time we will be there to assist you in the commissioning and system setup, ensuring that your customer recommends you for the next project.

Should you wish to know more about Vital Energi's meter reading and billing solutions please call 01204 554500 or email sales@vitalenergi.co.uk.