

## Ultrasonic Heat Meter



## Product Features

- Metrological measurement to EN1434 standard
- MID Approved
- Superior Ultrasonic Measurement principle
- Low energy consumption ~ 10 year battery life
- Display may be dismounted for easier viewing
- Measurement range between 5 – 90 ° C
- 16 Bar Max working Pressure
- 3" PN16 Flanged body
- M-Bus communications protocol (See options)

## Technical Specifications

### ultrasonic flow meter:

Has the ability to make measurements at low flow rates.

### flow measuring range:

- Minimum flow rate (q): 0.4 m<sup>3</sup> / h
- Nominal flow (qp): 40 m<sup>3</sup> / h
- Maximum flow rate (qs): 80 m<sup>3</sup> / h

### temperature sensors (matched pair):

- Starts to calculate  $\Delta t$  at minimum of 0.1 ° C.
- High speed, platinum resistance sensor pair used.
- The measurement temperature range is between 5 and 90 ° C.

### metrological characteristics:

- Manufactured according to EN 1434 standard.
- 2004/22 / EC + 2009/137 / EC, produced by MID
- Accuracy class 2 d (Class 2).
- Protection class IP54 type.
- Maximum allowable pressure (MAP) of 16 bar

## Package Contents

### standard:

- VHU80 Heat Meter.
- Gasket x2
- Connections (Reducers to 3/4" BSP) x2
- The Temperature sensor mount and o-ring seal x 2
- User Manual and Installation instructions

### optional:

- Temperature sensor connection Tee
- Hybrid Heat Meter Model

### communication and interfaces:

- Wired as standard with M-Bus interface.
- RF Wireless Communications uses the M-bus interface.
- Low energy consumption up to 10 years battery life.
- LCD with review of the last 12 months, consumer information may be displayed in the statistics menu

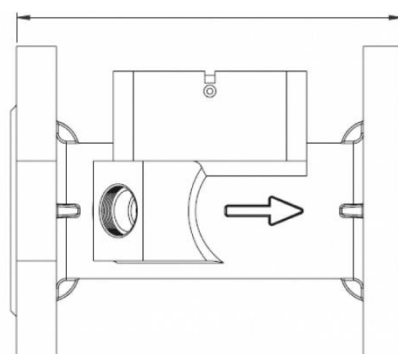
## Dimensions

N (D)	225mm
Flange Diameter	200mm
Hole Centers	160mm
Number of Bolts	8 pieces
Bolt Size	16 Metric

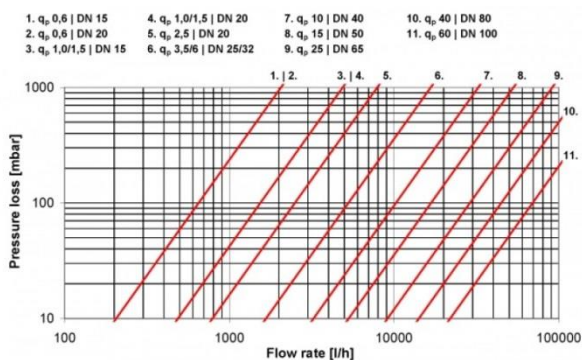
## Options

VHU80 (Standard)	M-bus communication
VHU80- RF	Wireless RF
VHU80- Pulse	Pulse Output

## Drawing



## Pressure Loss Curve



## Main Operator Menu & Statistics

