Heat meter WZ-HY

DATASHEET

Version 11/2011

Description

- Arithmetic unit with separate approval up to 180° C
- Temperature difference: 2 ... 130 K
- Approval for asymmetric installation of temperature sensors
- 4-bit micro-controller
- 7-digit multi-functional LCD
- Non-contact display switching
- Arithmetic unit housing rotable by 355°
- Ecofriendly 3 V Lithium battery
- Battery service live 5 years plus 1 year power-reserve
- Selfcalibrating temperature range

Interfaces

Impulse output

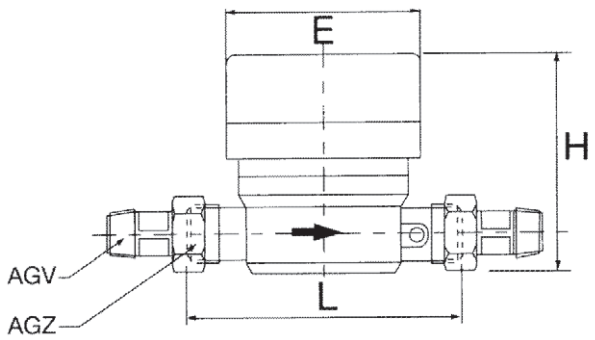
- SO (open collector) or potential-free contact
- Impulse valance:
  - 1 kWh/Imp with kWh displayed
  - 10 kWh/Imp with kWh displayed

M-Bus interface

- Integrated M-Bus interface in accordance with EN 1434-3
- Possible readout of data:
  Serial number, energy value, cut-off date value, volume, flow rate, heating power, supply and return temperature, temperature difference

EIB/KNX interface

- Integrated EIB interface in accordance with EIB/KNX
- Possible readout of data:
  Serial number, energy value, cut-off date value, volume, flow rate, heating power, supply and return temperature, temperature difference



Volume device			
Nominal width (DN)	15 mm	15 mm	20 mm
Nominal flow (q_p)	0,6 m³/h	1,5 m³/h	2,5 m³/h
Maximum load (q_s)	1,2 m³/h	3 m³/h	5 m³/h
Transitional quantity of flow (q_t)	48 l/h	120 l/h	200 l/h
Smallest quantity of flow (q_i)	12 l/h	30 l/h	50 l/h
Start about	8 l/h	13 l/h	18 l/h
Connection meter (external thread)	3/4 inch	3/4 inch	1 inch
Connection thread (external thread)	1/2 inch	1/2 inch	3/4 inch
Length L	110 mm	110 mm	130 mm
Height H	80 mm	80 mm	80 mm
Width arithmetic unit E	80 mm	80 mm	80 mm
Order information	**Item No.**		
WZ for dry sensor	85323106	85323115	85323125
WZ for dry sensor with impulse	85363106	85363115	85363125
WZ for dry sensor with M-Bus	85343106	85343115	85343125
WZ for dry sensor with EIB/KNX	85373106	85373115	85373125
WZ for dry sensor with LON	85353106	85353115	85353125
WZ for wet sensor	85423106	85423115	85423125
WZ for wet sensor with impulse	85463106	85463115	85463125
WZ for wet sensor with M-Bus	85443106	85443115	85443125
WZ for wet sensor with EIB/KNX	85473106	85473115	85473125
WZ for wet sensor with LON	85453106	85453115	85443125

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Communication options

- Remote readout via
  EIB/KNX, M-Bus, D-Bus, So

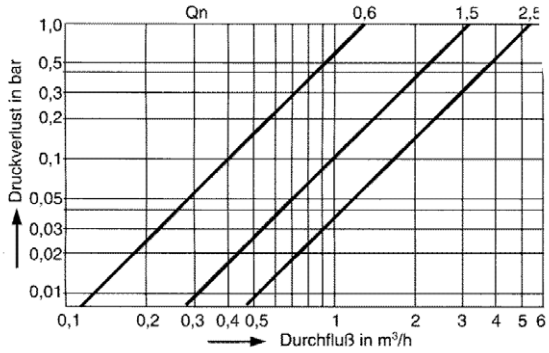
Volume device

- Installable in any position
- Volume recording via electronical sensing (magnet free)
- Optimal 2-point suspension made of sapphire/carbide metal
- Temperature range: 0 - 120° C

Temperature sensor

- Type Pt 500
- Diameter 5,2 mm
- Temperature range: 3 ... 105° C
- Temperature difference: 2 ... 130 K
- Cord length 1.5 m

Typical pressure drop curve



Menu displays			
Menu	**Description**	**time**	**Display**
1	Current consumption value (kWh or MWh available)	10 s	389 1083 kWh
2	Serial number (6-digit)	10 s	0004711
3	Consumption value previous year (on billing date)	10 s	1234567 kWh M 12
4	Display test	4 s	8.8.8.8.8.8.8 kWh MWh m³/h °C
5	Current date	5 s	02.05.99
6	12 month-end-values	a 6 s	36858 kWh M 03
7	Supply temperature in ° C	125 s	128.83 °C
8	Return temperature in °C	125 s	68.39 °C
9	Accumulated Volume in m³	10 s	1238 m³
10	Current flow rate	125 s	3.186 m³/h
11	Current power	125 s	36.8 kWh /h
12	Error display	5 s	Err.000
13	Calibrated till month/year	5 s	--.12.04
14	High precision display with 3 decimal places	5 s	1083.497 kWh
15	Impulse valance arithmetic unit [Liter]	5 s	L 10.0
16	Impulse valance Volume device [Liter]	5 s	PL 172.0
Display of functions			
Volume impulse 'Star' indicates incomming volume impulse			*
Communication: 'Phone' indicates update of network variables			☎
Device change: 'Battery' indicates ending of calibration periode			⚠
Additional displays			
Display ist switched off and ‚SLEEP' will flash every 8 seconds			SLEEP
Checksum error occured or the internal error counter has an overflow ‚ERROR' will flash every 8 seconds			ERROR
If unit is in programming mode ‚PROG' will flash every 8 seconds			PROG

For permanent signaling of the value /!\T*k can be activated by a hardware jumper for testing purposes.

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