VoluMess VI - A

11950204

0.000 MWh

I-01

((O)) Wasser Geräte

Art.: 79001
Typ: S3 *2021
Made in Germany

CE M21 0102
DE-16-MI004-PTB025

Heat-Meter Multi-jet flow Volumess VI for installation points A1

- Detection of back flow
- Measuring cycle temperature, dynamic: 2 / 60 s
- Outlet flow and inlet flow can be set on site
- Detachable calculator unit,
  pulse cable length 50 cm (optional)

Communication interfaces:

wireless M-Bus
wireless M-Bus + 3 pulse inputs
M-Bus
M-Bus + 3 pulse inputs
1 pulse output
2 pulse outputs
LoRa

CE   Impuls   M-Bus   MID

DVGW
MITGLIEDS-
UNTERNEHMEN

Technical data:

Flow sensor

Measuring method			bidirectional inductive scanning system		
Sizes	Nominal flow q_p	m³/h	0.6	1.5	2.5
	Low flow threshold	l/h	3.5	4.0	5.5
	Minimum flow q_i	l/h	12	30	50
	Maximum flow q_s	m³/h	1.2	3	5
Pressure drop Δp at q_p	bar		0.1	0.2	0.24
Pressure drop Δp at q_s	bar		0.4	0.74	0.92
Dynamic range q_i/q_p			1:50	1:50	1:50
Accuracy class (MID)			class 3		
Nominal pressure PN	bar		16		
Temperature range medium heat	°C		15 – 90		
Temperature range medium cooling (q_p 1.5 and q_p 2.5)	°C		5 – 50		
Point of installation			outlet flow and inlet flow; can be set when the amount of energy is still ≤ 10 kWh		
Mounting position			any position		
Protection class			IP65		
Medium			water; optional, without approval*: water with a propylene glycol or ethylene glycol percentage rate of 20 %, 30 %, 40 % or 50 % (* type and concentration of glycol can be set at any time)		

Calculator unit

Temperature range medium heat	°C	0 – 150
Temperature range medium cooling (q_p 1.5 and q_p 2.5)	°C	0 – 50
Ambient temperature in the field	°C	5 – 55 at 95 % relative humidity
Transport temperature	°C	-25 – 70 (for maximal 168 h)
Storage temperature	°C	-25 – 55
Temperature difference range ΔΘ heat	K	3 – 100
Temperature difference range ΔΘ cooling	K	-3 – -50
Minimum temperature difference ΔΘ heat	K	> 0.05
Minimum temperature difference ΔΘ cooling	K	< -0.05
Minimum temperature difference $ΔΘ_{HC}$ heat / cooling	K	> 0.5 / < -0.5
Resolution temperature	°C	0.01
Measuring cycle temperature; dynamic	s	2 / 60; using a power pack: 2 s permanent
Display		LCD - 8 digits + special characters
Decimal places		up to 3 after comma
Units		MWh, kW, m³, m³/h (kWh, GJ, MMBTU, Gcal); unit of energy can be set when the amount of energy is still ≤ 10 kWh
Interfaces		optical interface (M-Bus protocol); optional: wireless M-Bus; wireless M-Bus + 3 pulse inputs; M-Bus; M-Bus + 3 pulse inputs; 1 pulse output; 2 pulse outputs; LoRa
Power supply		exchangeable 3 V lithium battery; all types prepared for 3 V power pack (input voltage 230 V / 24 V)
Estimated lifetime	years	10 (no option: 1 pulse output); 6+1
Data storage		nonvolatile memory

Reading dates		selectable yearly reading date; 15 monthly and semimonthly values via display or wireless M-Bus (compact mode); 24 monthly and semimonthly values via optical interface or M-Bus
2 tariff registers		can be set individually; adding up energy or time
Storage of maximum values		flow, power and temperatures (inlet, outlet, ΔΘ), plus the respective maximum values of the last 15 months
Protection class		IP65
CE		yes
EMC		EN 1434

Temperature sensors (2-wire technique)

Platinum precision resistor		Pt 1000
Diameter	mm	5; 5,2; 6; AGFW 27,5; 38; Nadelfühler 3,5 x 75
Length of cable	m	1,5; 3; 6
Installation		asymmetrical; symmetrical

Weight

Weight (basic version)	kg	0.955

Dimensions

Pulse cable length (only separable version)	m	0.50
Calculator housing (H x W x D)	mm	75 x 110 x 34.5
Thread		M77 x 1.5
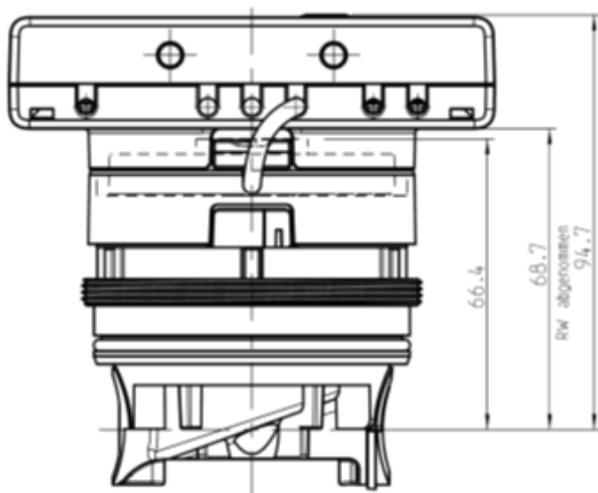
pressure drop VoluMess VI - A1

pressure drop [mbar]

flow [l/h]

Legend:
- EN1434 Limit qp0,6
- EN1434 Limit qp1,5
- EN1434 Limit qp2,5
- pressure drop qp 0,6
- pressure drop qp1,5
- pressure drop qp 2,5
- EN 1434

pressure drop ≤ 250 mbar at qp