SIEMENS

INSTRUCTIONS

SITRANS F M MAGFLO **Electromagnetic flowmeter** type MAG 5000 CT & MAG 6000 CT

Contents

1 MAG 6000 CT, incl. connection plate and operating manual.

4 sealing screws, sign plate, 1 set of instructions and 1 hardware key for CT settings.

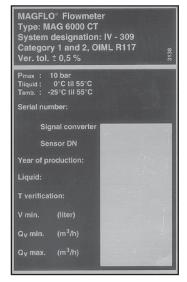
Introduction

Siemens electromagnetic flowmeters, SITRANS F M MAGFLO, type MAG 5000 CT & MAG 6000 CT are custody-transfer-approved for cold water and other media than water in accordance with OIML R 117 and they are custody-transfer-approved for hot water in accordance with OIML R

All transmitters must be used with sensors MAG 1100 and MAG 3100.

Transmitter MAG 5000 CT and MAG 6000 CT are also pattern approved to OIML R 49 when used together with sensor MAG 5100 W in the sizes DN 50 to DN 300.



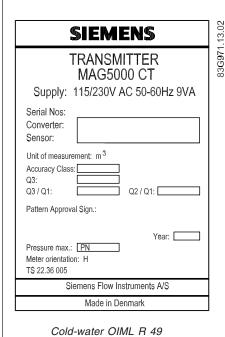




Hot-water-custody transfer OIML R 75

Cold-water (DK)

Other media than water OIML R 117



SIEMENS										
TRANSMITTER MAG6000 CT Supply: 115/230V AC 50-60Hz 9VA										
Serial Nos: Converter: Sensor:										
Unit of measurement: m ³ Accuracy Class: Q3: Q2 / Q1: Q2 / Q1:										
Pattern Approval Sign.:										
Pressure max.: PN Meter orientation: H TS 22.36 005										
Siemens Flow Instruments A/S	l									
Made in Denmark	1									

Depending on application, one of the above certification plates must be mounted on the side of the transmitter.

When the meter is used for billing, installation and sealing must be in accordance with both these instructions and national guidelines.

Specification for OIML R49

The allowable specification for standard products not initially verified from factory is:

Flow rates for MAG 5100 W legal type approved meters for verification [all values in m³/h]

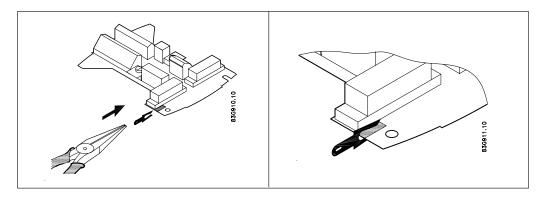
	Class 1					Class 2				
Size	Q4	Q3	Q2	Q1	Q3/Q1	Q4	Q3	Q2	Q1	Q3/Q1
50	78.75	63	1	0.4	160	78.75	63	0.63	0.25	250
65	125	100	1.6	0.63	160	125	100	1	0.4	250
80	200	160	2.5	1	160	200	160	1.6	0.63	250
100	312.5	250	4	1.6	160	312.5	250	2.5	1	250
125	500	400	6.3	2.5	160	500	400	4	1.6	250
150	787.5	630	10	4	160	787.5	630	6.3	2.5	250
200	1250	1000	16	6.3	160	1250	1000	10	4	250
250	2000	1600	25	10	160	2000	1600	16	6.3	250
300	2000	1600	40	16	100	2000	1600	25	10	160

For increased specifications contact factory.

Settings

Setting primary operating parameters such as Q_{max} , low-flow cut-off, units, approvals, etc. is blocked during normal operation. See menu setup.

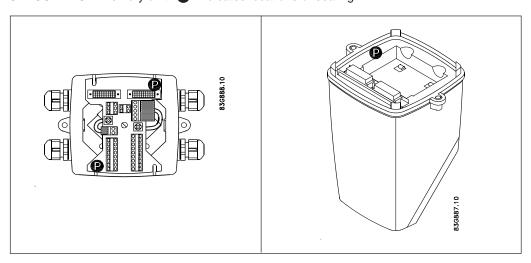
These settings are made in connection with commissioning or calibration by mounting a hardware key on the transmitter's connection plate. When the key is mounted, there is access to all menu items. When the key is removed, the primary settings are blocked in accordance with the requirements in the authorisation.



Internal sealing

After setup of settings and calibration of the unit the hardware key is removed again. This locks the menu structure and the selected settings. The transmitter and sensor must then be sealed to prevent unauthorized access. The connection plate is sealed to prevent access to the SENSORPROM memory unit.

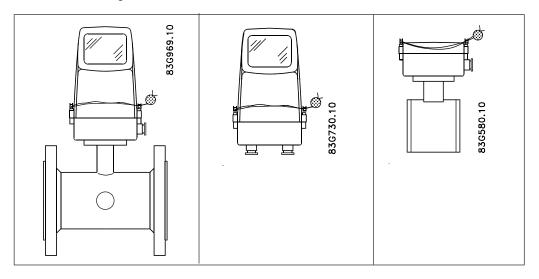
indicates locations of sealing.



Sealing

MAG 6000 CT is installed as shown in the instructions for a standard MAG 6000, except for the external sealing.

The external sealing is carried out as shown.



Internal totalizers

Depending on type of approval it is possible to reset the internal totalizers. The type of approval is selected in the reset menu, with the hardware key mounted. It is possible to select between:

- Hot/cold water
- Other media than water

Resetting of totalizers by electrical input are not possible.

Hot/cold water

- Totalizer 1 is allocated to forward flow (cannot be reset).
- Totalizer 2 is allocated to reverse flow (cannot be reset).

Other media than water

Both totalizer 1 and totalizer 2 are pre-selected to measure the net forward flow, i.e. any reverse flow will make the totalizers count backwards.

- Totalizer 1 can be reset if the flow rate in the meter pipe is <0.25 m/s. When the totalizer is reset, any pulse output will also be reset.
- Totalizer 2 is consecutive and cannot be reset.

Menu setup

