

SCHEDULE

(13)

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 2005

(15) Description of equipment

The Flux-Liquid Flow Meter type FM.../.../... is a part of the flow measuring system and consists of the electronic system with enclosure. The Flux-Liquid Flow Meter serves for detection and display of the quantity of substances of flowing media. The surface of the electronic enclosure of the Flux-Liquid Flow Meter complies with the requirements of electrostatic safety for equipment group IIB.

Electrical data

Internal supply

3 V (DC); for voltage supply approved battery type:
VARTA Mangandioxid / Lithium, type 6032;
IEC Design CR2032
changing of battery only permissible outside the
hazardous area.

Measuring input STA/STO
(terminal X1-9, X1-7)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_o = 6,7 \text{ V}$
 $I_o = 14 \text{ mA}$
 $P_o = 24 \text{ mW}$
linear characteristic
 C_i negligible small
 L_i negligible small

Measuring input IMPULS
(terminal X1-9, X1-6 or X2-1, X2-2)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_o = 6,7 \text{ V}$
 $I_o = 14 \text{ mA}$
 $P_o = 24 \text{ mW}$
linear characteristic
 C_i negligible small
 L_i negligible small

Output OK
(terminal X1-5, GND)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_i = 13,5 \text{ V}$
 $R_i = 1568 \text{ Ohm}$
 C_i negligible small
 L_i negligible small

Output g S1/MVEN
(terminal X1-4, GND)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_i = 13,5 \text{ V}$
 $R_i = 1568 \text{ Ohm}$
 C_i negligible small
 L_i negligible small

Output ERROR
(terminal X1-3, GND)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_i = 13,5 \text{ V}$
 $R_i = 1568 \text{ Ohm}$
 C_i negligible small
 L_i negligible small

Output S2/KRIECH
(terminal X1-2, GND)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_i = 13,5 \text{ V}$
 $R_i = 1568 \text{ Ohm}$
 C_i negligible small
 L_i negligible small

Output Impulse route
(terminal X1-1, GND)

in type of protection Intrinsic Safety Ex ia IIC/IIB;
maximum values:
 $U_i = 13,5 \text{ V}$
 $R_i = 1568 \text{ Ohm}$
 C_i negligible small
 L_i negligible small

For safety aspects, the output circuits are to be regarded as connected with each other.

(16) Assessment and test report PTB Ex 11-20327

(17) Special conditions for safe use

none

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 2005

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, March 4, 2011


Dr.-Ing. U. Johannsmeyer
Direktor und Professor

