

MICRO-FLOW

SERIES OF FLOW METER SIGNAL PROCESSING DEVICES

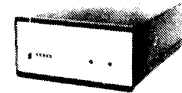
The devices of "MICRO-FLOW" series are of simple design; nevertheless, they can be used in more sophisticated measuring circuits. Completed with two Zener barriers of type 3428-0-101-0, intrinsically safe measuring circuits can also be configured.

These devices are suitable to process signals from turbine meters and vortex meters.

They can be installed in instrument panels.



3699-0-1A0-0



3699-0-200-0



3699-0-4A0-0



3699-0-300-0

Specifications

Type number

3 6 9 9 - 0 - □ □ 0 - 0

1A	Analogue display
20	Digital totalizer
30	Batch controller
4A	Flow meter display

A: Current output range proportional to the volumetric flow (see overleaf).

The series consists of four units as follows:

<i>Analogue display unit:</i>	measures the volumetric flow
<i>Digital totalizer unit:</i>	measures the totalized volume
<i>Batch controller:</i>	controls the filling of liquid
<i>Flow meter display unit:</i>	measures the volumetric flow and the totalized volume

Other parameters

• Supply voltage	230 V rms $\begin{matrix} +10 \\ -15 \end{matrix}$ %, 50 Hz
• Power dissipation	max. 20 VA
• Operating temperature range	+5 to +45 C°
• Storage temperature range	-20 to +70 C°
• Protection	IP 20, shock protection class I
• Dimensions	192 x 96 x 280 mm
• Mass	approx. 5 kg

		1A0	200	300	4A0
Low-level input (turbine meter)	15 mV rms to 1.5 V rms	+	+		+
frequency range	20 to 5000 Hz	+	+		+
High-level input (vortex meter)	4 to 8 V	+	+	+	+
frequency range	5 to 5000 Hz	+	+		+
input current	10 to 20 mA			+	
input current	10 to 20 mA	+	+	+	+
Contact input	pot.-free, normally open			+	
input current	max.15 mA			+	
frequency range	max.10 Hz			+	
Display					
Volumetric flow	indicating instrument	+			+
Signal failure indication	red LED	+	+		+
Totalized volume.	six-digit el. mech. counter		+		+
Batch display	six-digit el. mech. counter with pre-selection			+	
Filling indicator				+	
Outputs					
Output current: A = 0, 1, 2	0 to 5 0 to 10 0 to 20mA	+			+
3, 4, 5	1 to 5 2 to 10 4 to 20mA				
Totalized volume output	potential-free alternate contact		+	+	+
Signal failure indication	potential-free alternate contact	+	+		+

Accuracy data under reference conditions

- Display error $\pm 1.5\%$
- Output current error $\pm 0.25\%$
- Summed volume error ± 1 volume unit