

RPmag

electromagnetic flow meter with data logger built-in



RPmag flowmeter is suitable for all the applications into "industrial process". Various materials for lining are available as well as for electrodes, made of tantalum, hastelloy C, titanium or platinum. Most common communication systems such as Modbus and Hart are available

- Compact digital system, for conductive liquids ($>5\mu\text{S}/\text{cm}$), even with a limited content of suspended solids
- Measurement range from $<0,1\text{m}^3/\text{h}$ to $>110000\text{m}^3/\text{h}$
- Typical measurement accuracy: $\pm 0.5\%$ ($\pm 0.2\%$ optional)
- Output alarms: 2 configurable relays
- Analog inputs: two inputs for 4÷ 20mA analog transmitters connection
- Configuration and displaying via VL701 with O-LED display
- Data Logger: on USB pen drive
- Power supply 85÷265Vac, 24Vdc, 12Vdc



process control and measurement

FEATURES

- Sensor dimension range: DN10 ÷ DN2000
- Measure range: <math><0,1\text{m}^3/\text{h}</math> ÷ $>110000\text{m}^3/\text{h}$
- Sensor material: SS321
- Lining material:
PTFE DN10 ÷ DN500; RUBBER DN65 ÷ DN2000
- Housing material: epoxy painting aluminium
- Electrodes material:
SS316 - Hastelloy C - Titanium – Tantalum - Platinum
- Remote version operating temperature:
RUBBER -40 ÷ +80°C; PTFE -40 ÷ +150°C
- Compact version operating temperature:
RUBBER -40 ÷ +80°C; PTFE -40 ÷ +100°C
- Fluid conductivity: >5µS/cm
- Accuracy: ±0,5% standard; ±0,2% optional
- Repeatability: ±0,1%
- Settings: via VL701 module, 4 buttons
- Display: O-LED 57x30 alphanumeric digit
- Analog output: 4÷20mA; max. load 750Ω
- Communication protocol (opt.): Modbus; Hart
- Data Logger: on USB pen drive
- Digital output: 0,1÷5000Hz
- Pulse output: 24Vdc max 2.3mA
- Alarms output: 2 relays, 3A 230Vac N.O.
- Analog inputs: two for 4÷ 20mA transmitters connection

DATA LOGGER

RPMAG has the integrated data logger on board for the measurement recording.

RPMAG stores all measured variables in a TXT file compatible with Excel or other equivalent software.

The data logger is physically composed of a USB pen drive. The USB port for the pen drive is located behind the VL701 removable display.

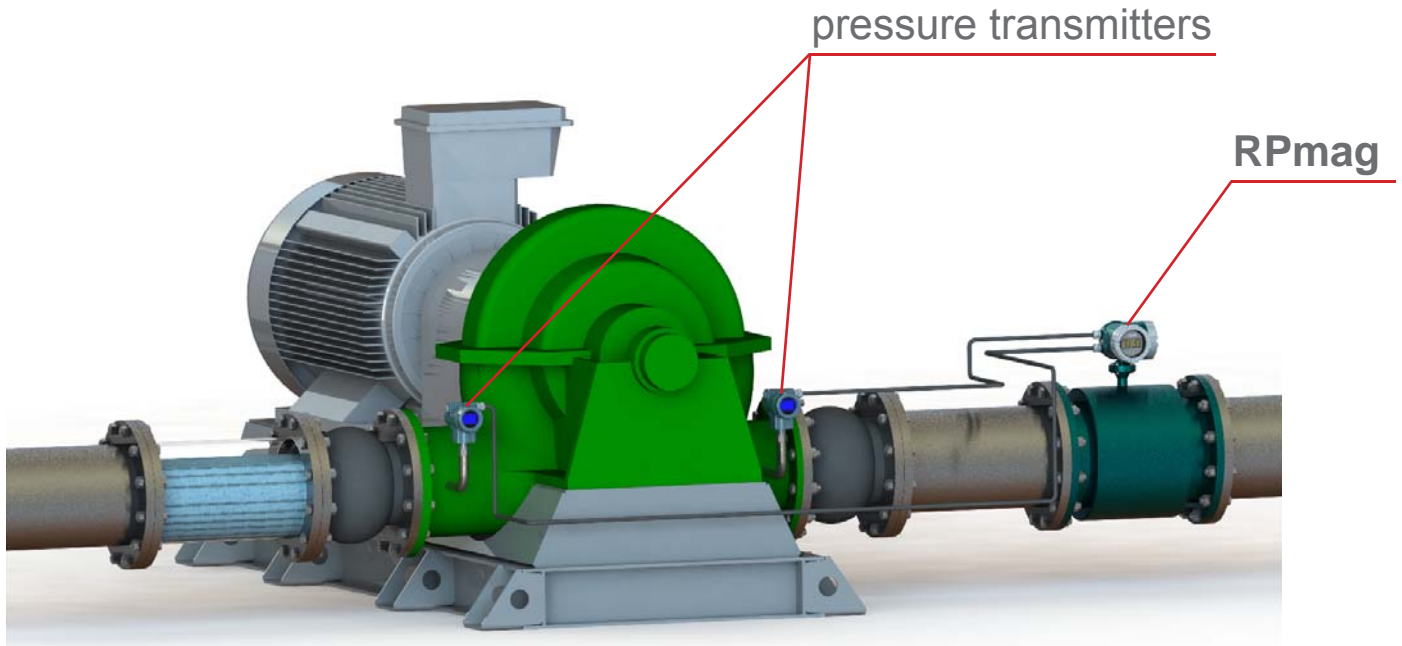
data logger storage
extractable USB pen drive

VL701 module



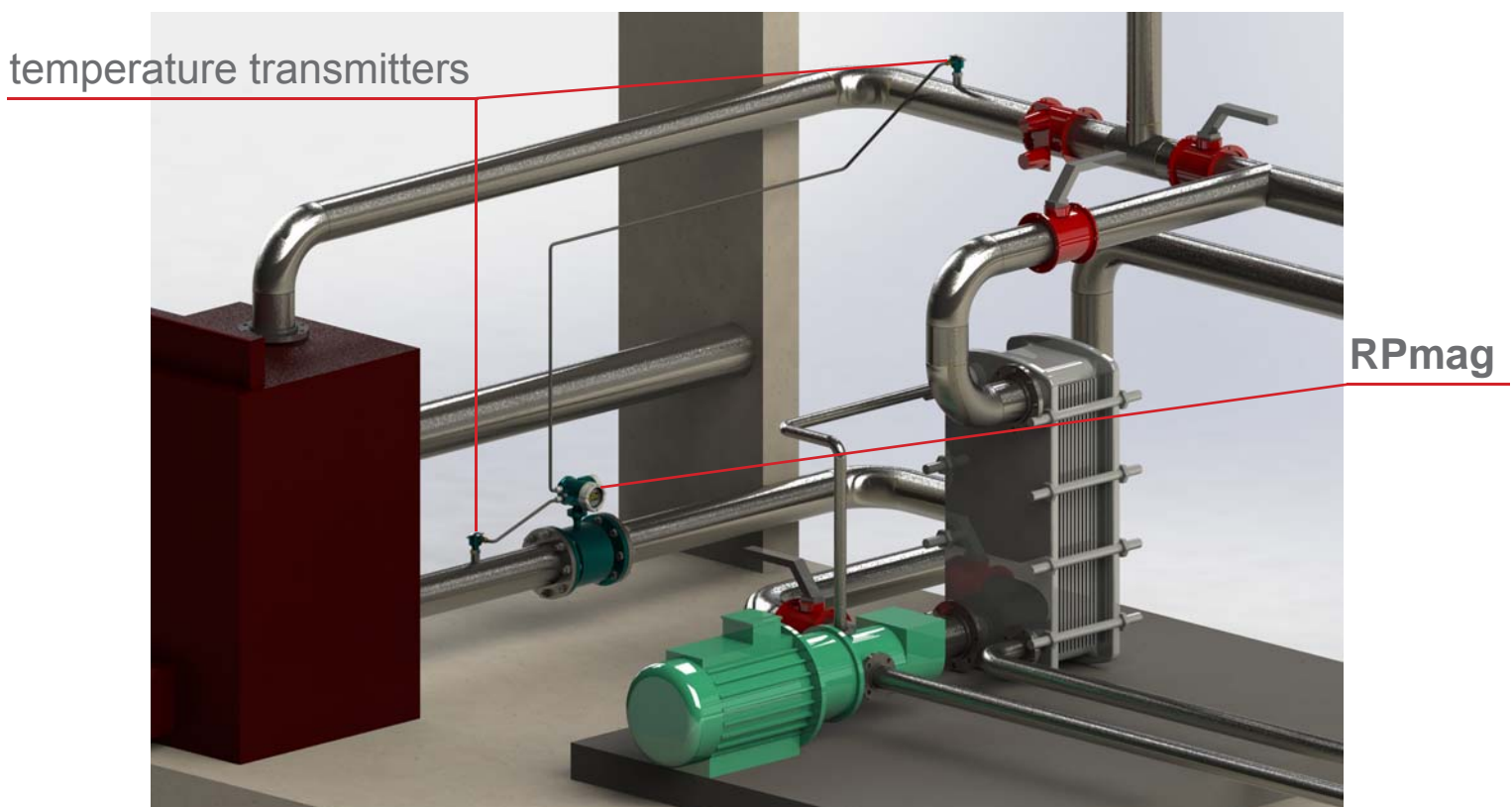
FLOW AND PRESSURE MEASUREMENT

RPMAG has two analog inputs for the connection of transmitters 4 to 20mA of pressure, temperature, etc.. The measured parameters can be displayed on the VL701 module and can be stored on internal data logger. One of the main application is the monitoring of the pump input and output pressure in relation to the measured flow rate



CALORIES MEASUREMENT

RPMAG, in a particular version, allows the calories measurement. To calculate the calories it is necessary to connect to the RPMAG analog inputs a 4÷20 mA temperature transmitter installed in the plant input, and a 4÷20mA temperature transmitter installed in the plant output.



PRODUCT CODES

Version	
B	Remote – acc. 0,2% - std cable length 5m - Data logger – n.2 4+20mA input
C	Remote – acc. 0,5% - std cable length 5m - Data logger – n.2 4+20mA input
L	Compact – acc. 0,2% - max temperature of the fluid 100°C - Data logger – n.2 4+20mA input
N	Compact – acc. 0,5% - max temperature of the fluid 100°C - Data logger – n.2 4+20mA input
DN flange / Max. pressure / Lining	
Available from DN 10 to DN 2000. More info on our web site	
Process connection	
B	DIN (UNI 1092-1) flange
D	ANSI flange (price on request)
Z	Special
Electrodes material	
1	SS316
3	Hastelloy C
4	Titanium
5	Tantalum
Power supply	
A	85+265Vac
B	24Vdc
D	12Vdc
Z	Special
Accessories	
0	None
1	321SS or Hastelloy C grounding rings for plastic pipe installation (price on request)
3	3rd electrode (price on request)
Output	
A	4+20mA + pulse output + 2 relays
C	4+20mA + pulse output + 2 relays + HART
E	4+20mA + pulse output + 2 relays + MODBUS RTU
Sensor pipe protection degree	
1	IP67
2	IP68



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LEVELS

FLOW

PRESSURE

TEMPERATURE