

C131-FMC240

Magnetic Flow Transmitters Series (Faraday Effect) For Conductive Liquids Even Dirty

C131-FMC240 is the latest version of the latest generation series of magnetic flow transmitters for liquids, which exploit the well-known Faraday effect to perform the measurement.

Thanks to the technology used and the accurate construction, they do not present obstructions inside the measuring tube, this means no pressure losses, for this reason they are very reliable, and easy to apply, also requiring very little maintenance. They are particularly suitable for a wide range of applications, even heavy ones and in the presence of unclean liquids and even with suspended particles (Not Large Solid Bodies), as long as they are minimally electrically conductive.

The instrument is equipped with a latest generation microprocessor control electronics, with a display and local keyboard that allows even inexperienced operators to manage all its functions with extreme simplicity.

The instrument is also equipped with numerous variants regarding types of construction materials, internal coatings, materials of the measuring electrodes, in order to be able to be installed in numerous applications, including healthcare ones.

To make it easily adaptable to all operating situations, it is equipped with both the typical analog output in current, or impulsive or frequency, and is also equipped with RS485 communication with ModBus protocol.

Finally, thanks to a wide range of accessories developed by CEAM, it is possible to connect to Ethernet, Wireless WiFi or even Powerlan via a 230 Vac electrical network.



Application:

Monitoring Water Flow Rates Even Dirty, Sanitary Water, Sewage Discharges Sewage
Chemical Industry - Paper - Metallurgical and many more.

General Technical Specifications:

Instrument Technology: Real time Flow Transmitter on Magnetic principle (Faraday Effect) - Standard JB/T9248-2015

Available Versions: Compact or with Remote Electronics Housing

Diameter Range: DN15 ÷ Dn1000 Standard

Pressure Range: Pn6 (0.6 Mpa) - Pn10 (1.0 Mpa) - Pn16 (1.6 Mpa) - Pn40 (4.0 Mpa) - Pn63 (6.3 MPa)

Process Connection: Flanged - Compliant JB/T9248-2015 - Carbon Steel (Standard) - Stainless Steel (Optional) -

Clamp Compliant ISO2852 in Stainless Steel, Special on Request

Electronic housing material (Housing) = Epoxy painted Aluminum

Electrode material: Stainless Steel 316L - Hastelloy C - Hastelloy B - Titanium - Tantalum - Platinum and Iridium Alloy - Tungsten Carbide

Internal Lining Material: Neoprene, Polyurethane, PTFE/FEP and PFA.

Measuring range: < 0.1 ÷ >110,000 m³/h

Accuracy: ± 0.5% Standard

Repeatability: < 0.16%

Fluid conductivity: 5 MicroSiemens/cm minimum

Power supply voltage: 100 ÷ 240 Vac - 24 Vdc/dc - 12 Vdc- Consumption: 3W Min - 15W Max

Temperature range Remote version: Neoprene = -40 ÷ 70 °C - Polyurethane = -40 ÷ 60 °C - PTFE/FEP = -40 ÷ 120 °C - PFA = -40 ÷ 180 °C

Temperature range Compact version: Neoprene = -40 ÷ 70 °C - Polyurethane = -40 ÷ 60 °C - PTFE/FEP = -40 ÷ 120 °C - PFA = -40 ÷ 120 °C

Storage temperature: -40÷85 °C - 0 ÷ 100 UR% @65 °C Non-condensing

Communication protocol: Modbus RTU (RS485)

Output signals: 4÷20 mA Load 0÷500 ohm - Frequency 0.1÷10,000 Hz - Pulsed 24 V Galvanically Isolated

Reverse flow: Instantaneous and totalized measurement of the reverse flow

Special functions: Empty pipe recognition, electrode contamination, upper limit alarm, lower limit alarm

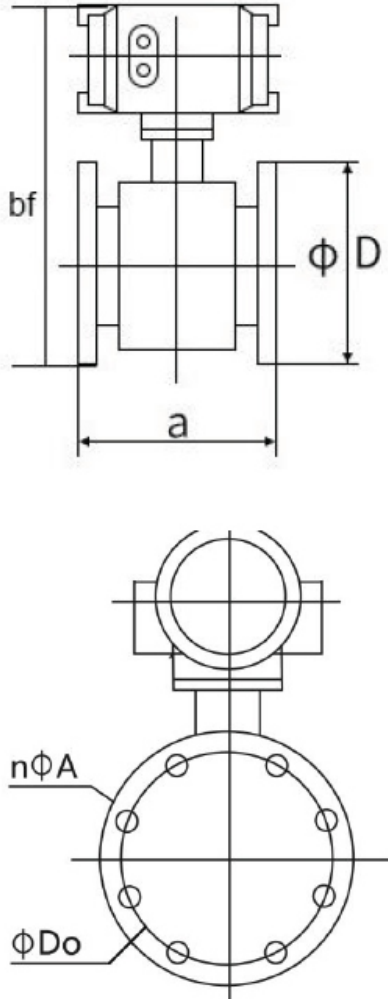
Flow cut-off: Configurable threshold on the instantaneous flow, below which both the measurement and all outputs are forced to zero

Protection index: IP65 for the electronic part - IP 68 for the sensor

Anti-condensation: Filter installed on the converter



Dimensions

	DN	a	bf	D	Do	n*A	Pressure resistance
	15	200	326	95	65	4*14	1.6 MPa
	20	200	326	105	75	4*14	
	25	200	316	115	85	4*14	
	32	200	331	135	100	4*18	
	40	200	339	145	110	4*18	
	50	200	358	160	125	4*18	
	65	200	370	180	145	4*18	
	80	200	389	195	160	8*18	
	100	250	410	215	180	8*18	
	125	250	440	245	210	8*18	
	150	300	469	280	240	8*23	
	200	350	522	335	295	12*23	
	250	450	824	405	355	12*25	
	300	500	624	440	400	12*23	1 MPa
	350	550	1029	500	460	16*23	
	400	600	737	565	515	16*25	
	450	600	786	615	565	20*25	
	500	600	839	670	620	20*25	
	600	600	944	780	725	20*30	
	700	700	1052	895	840	24*30	
	800	800	1164	1015	950	24*33	
	900	900	1264	1115	1050	28*33	
	1000	1000	1374	1230	1160	28*36	

Electronics with Display



Transmitter version with remote electronics



How To Order:

The C131-FMC240 instrument and all the related information are available online on the [ceam sensorstore.it](http://ceam.sensorstore.it) platform on the product page, also directly accessible with a tablet or smartphone via the ceam QR code on the side.

Through the dedicated area of the product page you can configure the desired version of the tool and request the offer.

For any further information or suggestions contact ceam customer service.



CEAM® Control Equipment

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