![STS logo](global.sensor.excellence)

FM130

Sensor

Data Sheet

Benefits

- Compact and lightweight
- Easy installation and maintenance
- Cost-effective
- Low pressure drop

Typical Applications

- Water / Waste water
- Chemical
- Mining
- Agriculture

Measuring Range: DN25 – DN400 16 bar (232psi), 40 bar (580psi)
Temperature Range: -20°C – 110°C (-4°F – 230°F)
Accuracy: Up to 0.4%

CE

Technical Data

Overall Features	
Nominal diameter	DN 25 (1") ÷ DN 400 (16")
Minimum conductivity	5 µS/cm
Humidity Range	0÷100% (IP 67)
Accuracy	See relevant converter data sheet
CE Certification	Yes

Standard Features	
Body Material	Carbon steel painted
Nominal Pressure	• 16 bar (232 psi) : all with PP and Ebonite lining • 40 bar (580 psi) : PTFE lining up to DN150 (6")
Process Connection	Wafer Type
Version - Protection Rating	Compact IP67
Body Material	Carbon Steel
Lining Material	• Polypropylene (max PN 16 or 232 psi) • Ebonite - DN 200 (8") – DN 400 (16") • PTFE - DN 25 (1") – DN 150 (6")
Gasket Material **(ONLY for lining in polypropylene)**	FPM
Liquid Temperature	0°C – 60°C (32°F – 140°F) with PP lining -5°C – 80°C (23°F – 176°F) with Ebonite lining -20°C – 100°C (-4°F – 212°F) with PTFE lining in compact version
Vacuum Resistance	0.2 bar abs (2.9 psi abs) at 100°C (212°F), PP 60°C (140°F), Ebonite 80°C (176°F)
Electrodes Material	• AISI 316 (1.4404) • Hastelloy C • Platinum-rhodium • Titanium • Tantalum

Optional Features (For more details, see 'How to Order' on last page)	
Body Material	Stainless steel AISI 304 or 316
Gasket Material **(ONLY for lining in polypropylene)**	EPDM
Liquid Temperature	-20°C – 110°C (-4°F – 230°F) with PTFE lining in seperate version
Lining Material	On request
Electrodes Material	On request
Version - Protection Rating	• Separate version (max 20m) – IP 68 • Separate version (max 500 m), with preamplifier – IP 67 • Separate version (max 500 m), with preamplifier – IP 68

How to Order

CODE EXAMPLE		CODE/DESCRIPTION
Nominal Diameter / Lining / Liquid temperature / Measuring range		
T100	P25	DN25 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 17,6mc/h
	T25	DN25 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 17,6mc/h
	P32	DN32 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 28,8mc/h
	T32	DN32 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 28,8mc/h
	P40	DN40 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 45,2mc/h
	T40	DN40 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 45,2mc/h
	P50	DN50 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 70,6mc/h
	T50	DN50 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 70,6mc/h
	P65	DN65 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 118mc/h
	T65	DN65 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 118mc/h
	P80	DN80 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 180mc/h
	T80	DN80 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 180mc/h
	P100	DN100 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 282mc/h
	T100	DN100 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 282mc/h
	P125	DN125 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 440mc/h
	T125	DN125 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 440mc/h
	P150	DN150 / P.P. Lining / Max. Temp.: 0°… +60°C / Measuring range: 0 … 636mc/h
	T150	DN150 / PTFE Lining / Max. Temp.: -20°… +110°C / Measuring range: 0 … 636mc/h
	E200	DN200 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°… +80°C / Measuring range: 0 … 1130mc/h
	E250	DN250 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°… +80°C / Measuring range: 0 … 1766mc/h
	E300	DN300 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°… +80°C / Measuring range: 0 … 2544mc/h
	E350	DN350 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°… +80°C / Measuring range: 0 … 3462mc/h
	E400	DN400 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°… +80°C / Measuring range: 0 … 4522mc/h
Gasket material (internal tightness - only PP lining)		
0	0	No O-Ring (ONLY FOR PTFE/EBONITE LINING)
	1	O-Ring : FKM
	2	O-Ring : EPDM
	9	Gasket material: to be specified
Body material		
A	A	Body in Carbon Steel painted
	B	Body in Stainless Steel (AISI304)
	C	Body in Stainless Steel (AISI316)
	Z	Body material: other

How to Order

Number and electrodes material		
2	2	n. 3 (2 measure + 1 for ground) electrodes in AISI316 (1.4404)
	4	n. 3 (2 measure + 1 for ground) electrodes in Hastelloy C
	5	n. 3 (2 measure + 1 for ground) electrodes in Titanium
	6	n. 3 (2 measure + 1 for ground) electrodes in Tantalum; not available with Polypropilene
	7	n. 3 (2 measure + 1 for ground) electrodes in Platinum; not available with Polypropilene
	0	Electrode material: to be specified
Version / Protection rate		
A	A	Compact execution, IP67 protection rate
	B	Separate version - Material JB: Alluminium - IP68 - for Cable C014 + C015/16
	F	Separate version - Material JB: Alluminium - IP68 - n.2 MIL connectors for Cable C015/016-CC/CS + CB
	N	Separate version - Material JB: Alluminium - IP67 - with Preamp for Cable C014 + C015/16
	L	Separate version - Material JB: Alluminium - IP68 - with Preamp - n.2 MIL connectors for Cable C015/016-CC/CS + CB
	U	Separate version - Material JB: 304 RAW - IP68 for Cable C014 + C015/16
	T	Separate version - Material JB: 304 RAW - IP68 - n.2 MIL connectors for Cable C015/016-CC/CS + CB
	P	Separate version - Material JB: 304 RAW - IP67 - with Preamp for Cable C014 + C015/16
	M	Separate version - Material JB: 304 RAW - IP68 - with Preamp - n.2 MIL connectors for Cable C015/016-CC/CS + CB
	K	Separate version - Material JB: 304 Polished - IP68 for Cable C014 + C015/16
	W	Separate version - Material JB: 304 Polished - IP68 - n.2 MIL connectors for Cable C015/016-CC/CS + CB
	V	Separate version - Material JB: 304 Polished - IP67 - with Preamp for Cable C014 + C015/16
	J	Separate version - Material JB: 304 Polished - IP68 - with Preamp - n.2 MIL connectors for Cable C015/016-CC/CS + CB

Example of
complete to order → FM130-T100-0A2A