

# Compact Magmeter with display

8050

- For continuous multiparameter monitoring
- Measuring and monitoring of flow, temperature and conductivity
- Quick and flexible start-up via IO-Link and Bluetooth
- Easy adjustment to suit the process by using adapters

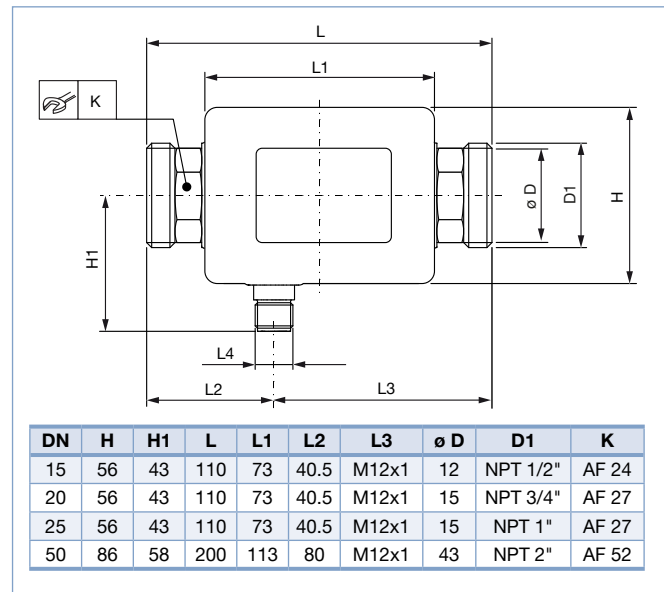


The Type 8050 is a compact magnetic-inductive flow measuring device that will help you monitor your processes. Thanks to its compact and robust design, this device is the perfect solution for applications where space needs to be saved. The integration can be performed easily thanks to the additional process adapter, and start-up is made easier by the Bluetooth connection.

## Technical Data

<b>Measuring principle</b>	Electromagnetic flow measurement
<b>Fluid</b>	Suited for conductive liquids ( $\geq 10 \mu\text{S/cm}$ )
<b>Display</b>	1.4" TFT color display, auto-rotatable (dependent on orientation)
<b>Operation</b>	<ul style="list-style-type: none"> <li>• SmartBlue App for smartphone or tablet (Bluetooth)</li> <li>• IO-Link for operation via process control system</li> </ul>
<b>Material</b>	<ul style="list-style-type: none"> <li>• Housing: 1.4404/316L, 1.4409/CF3M</li> <li>• Measuring tube: PEEK</li> <li>• Electrodes: 1.4435/316L</li> <li>• Process connection: 1.4404/316L</li> <li>• Display: polycarbonate</li> <li>• Seals: FKM</li> </ul>
<b>Power supply</b>	DC 18 to 30 V
<b>Process temp.</b>	-10 to +70 °C (14 to +158 °F), temporarily up to +85 °C (+185 °F)
<b>Degree of protection</b>	IP65/67 (Type 4 enclosure)
<b>Communication</b>	Via Bluetooth or IO-Link
<b>Nominal diameter</b>	DN 15 (1/2"), DN 20 (3/4"), DN 25 (1"), DN 50 (2")
<b>Measured variables</b>	Volume flow, temperature, conductivity (temperature-compensated)
<b>Process connections</b>	1/2"-2" female NPT
<b>Measuring range</b>	<ul style="list-style-type: none"> <li>• DN 15 (1/2"): 0.01 to 6.6 gal/min</li> <li>• DN 20 (3/4"): 0.03 to 13.2 gal/min</li> <li>• DN 25 (1"): 0.05 to 26.4 gal/min</li> <li>• DN 50 (2"): 0.4 to 198.1 gal/min</li> </ul>
<b>Inlet/outlet run</b>	Not required (0 x DN)
<b>Process pressure</b>	16 bar (232 psi)
<b>Max. measured error</b>	Flow: $\pm 0.8\%$ o.r. $\pm 2\%$ of full scale; temp: $\pm 4.5$ °F
<b>Repeatability</b>	Flow: $\pm 0.2\%$ o.f.s.; temp: $\pm 0.9$ °F; cond: $\pm 5\%$ o.r. $\pm 5 \mu\text{S/cm}$

## Envelope Dimensions [mm] (see datasheet for details)



## Accessories Ordering Chart

Voltage supply		Item no.
M12 straight circular female connector with cable, 4x0.34, in PUR (polyurethane)	2 m	571222
	5 m	571223
	10 m	571224
M12 angled (90°) circular female connector with cable, 4x0.34, in PUR (polyurethane)	2 m	571225
	5 m	571226
	10 m	571227

## Ordering Chart

DN [mm]	Measuring range			Pipe connection	Seal material	Item no.
	Volume flow rate	Temperature	Conductivity			
<b>Flowmeter with external (male) thread pipe connection</b>						
15	0.05...35 l/min (0.013...9.2 gal/min)	-10...+70 °C (+14...+158 °F)	20...30 000 $\mu\text{S/cm}$	NPT 1/2"	FKM	571166
					EPDM	571167
20	0.1...75 l/min (0.026...19.8 gal/min)		20...30 000 $\mu\text{S/cm}$	NPT 3/4"	FKM	571174
					EPDM	571175
25	0.2...150 l/min (0.052...39.6 gal/min)		20...30 000 $\mu\text{S/cm}$	NPT 1"	FKM	571182
				EPDM	571183	
50	1.5...750 l/min (0.4...198.1 gal/min)	20...10 000 $\mu\text{S/cm}$	NPT 2"	FKM	571190	
				EPDM	571191	