

Comparison: MC-III WP vs F103 WP

The MC-III weatherproof Flow Analyzer and the Fluidwell F103 weatherproof Flow logger / Totalizer both serve the same liquid and gas flow measurement applications. They have a CSA Class 1, division 2, Non-Incendive rating for the United States and Canada. The following table shows the similarities and differences of both products.

	MC-III WP	F103 WP
Hazardous area Certification	CSA c-us Non-Incendive Class I, Division 2, Grps A/D T5	CSA c-us Non-Incendive Class I, Division 2, Grps A/D T5
Safe area according CE	n/a	Yes, optional.
Temperature & Pressure Compensation	Fixed (based on constant P&T) or manually calculated	n/a at F103. <i>(Based on actual P&T measurements - F126)</i>
Display info	Flow rate, total and daily totals	Flow rate, total, accumulated total and daily totals
Housing Classification	Weatherproof Type 4	Weatherproof Type 4X / IP67
Housing material	Molded fiberglass polyester	Glass reinforced polymer. <i>(Aluminium & Stainless Steel are available as well)</i>
Ambient Temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Size / weight	6.9" x 6.5" x 4.3" 160 x 160 x 105mm 2lb / 1kg	5.1" x 4.7" x 2.9" 130 x 120 x 75mm 1.5lb / 0.7kg
Display size	2" x 1" 50 x 25mm	3.5" x 1.6" 90 x 40mm
Nr. of digits for Total / Daily totals	8 digits of 0.3" / 7.6mm	7 digits of 0.67" / 17mm
Nr. of digits for Accumulated total	n/a	11 digits of 0.31" / 8mm
Nr. of digits for Flow rate	6 digits of 0.3" / 7.6mm	7 digits of 0.31" / 8mm
Measurement units for Total	GAL, BBL, M3, CF, LIT	L, m ³ , US gal, igal, cf, Oil bbl, kg, ton, US ton, lb, nL, nm ³ or no unit.
Measurement units for Flow rate	GAL, BBL, M3, CF, LIT. /sec, /min, /hr, /day	mL, L, m ³ , mg, g, kg, ton, US ton, US gal, igal, Oil, bbl, lb, cf, rev, none, scf, nm ³ , nL or p. /sec, /min, /hr, /day
Data protection	Manual back-up of Total	Settings and Totals are automatically stored

F 103 Flow logger



Your success counts

MC-III WP

F103 WP

Free configuration software	Yes	Yes, downloadable
Data logging	384 daily logs 768 hourly logs 345 event logs	600 daily logs 1500 interval logs (<i>configurable</i>) 724 event logs
Log data	Run time flow volume supply voltage date / time stamp log number	Flow rate total at contract hour accumulated total date / time stamp log number
Installation	Exposed circuit board Fixed screw connectors	Safely covered electronics Plug-in connectors
Inputs	Turbine meter input (Coil), Isolated pulse input 3-30V DC max. 3.5kHz	Turbine meter input (Coil), Isolated pulse input 3-30V DC max. 7kHz, NPN, PNP, Reed
Coil input sensitivity	20 - 40mVpp	20 - 80mVpp
Input linearization	12 points	15 points
Reset inputs	By keypad, Optional ext. push button, Modbus Communication	By keypad, ext. push buttons (isolated & non-isolated), Modbus Communication
Digital outputs	Scaled pulse, Unscaled pulse (<i>Amp & Square, Cannot be used simultaneously with analog output</i>)	Scaled pulse (500Hz), Isolated scaled pulse (50Hz), Unscaled pulse (Amp & Square)
Analog output	Loop powered (<i>Cannot be used simultaneously with Amp & Square output</i>)	Galvanically isolated, Loop powered
Communication	Modbus RS485, Free configuration software	Modbus RS485, Free configuration software (<i>HART Communication - F018</i>)
Power requirements	Alkaline battery (20°F/140°F), Lithium battery, Loop-powered 4 - 20mA, 6 - 30V DC	Lithium battery, Isolated loop-powered 4 - 20mA, 6 - 30V DC
Options		Backlight Aluminium enclosure Stainless Steel enclosure

