

Inline-Durchflussmesser FCMI-3/4D12DYA4P-LIUP8X-H1141 | Inline Flow Meter FCMI-3/4D12DYA4P-LIUP8X-H1141

Programming

Step	The programming is started by pushing buttons (S1/-) and (mA/+) together for 3 s. The display starts to flash. The flow monitoring is still activated. Use the M-button for selecting the desired function.		
	Cod	0 ... 255	Enter access code Factory setting: 0
1	SP	10 ... 200 or 3.7 ... 75.7	Switch point [gpm] or [l/min]
2	hS	0.1 ... 20 or 0.2 ... 7.5	Hysteresis of Switch point [gpm] or [l/min]
3	OU	n0 nC	Output [normally open/normally close]
4	dS	00 ... 500	Switch-on time delay setpoint [s]
5	dr	00 ... 500	Switch-off time delay setpoint [s]
6	nF ₁	0 / 1 / 2 / 4 / 8	Averaging time [s]
7	A4	00 ... 150 or 00 ... 56.8	MIN-value in [gpm] or [l/min] for 4 mA
8	A20	50 ... 200 or 18.9 ... 75.7	MAX-value in [gpm] or [l/min] for 20 mA
9	Cod	0 ... 255	Change access code
Finish the programming	To finish the programming push the button (M) for approximate 3 s. The display stops flashing and the current flow rate is shown on the display.		

Display/Measuring Mode

Step	The flow sensor is in the measuring/display mode. Use the M-button for selecting the desired parameter. The parameters can't be changed in this mode.		
1	SP	10 ... 200 or 3.7 ... 75.7	Switch point [gpm] or [l/min]
2	hS	0.1 ... 20 or 0.2 ... 7.5	Hysteresis of Switch point [gpm] or [l/min]
3	OU	n0 / nC	Output [normally open/normally close]
4	dS	00 ... 500	Switch-on time delay setpoint [s]
5	dr	00 ... 500	Switch-off time delay setpoint [s]
6	nF ₁	0 / 1 / 2 / 4 / 8	Averaging time [s]
7	A4	00 ... 150 or 00 ... 56.8	MIN-value in [gpm] or [l/min] for 4 mA
8	A20	50 ... 200 or 18.9 ... 75.7	MAX-value in [gpm] or [l/min] for 20 mA

Selection of the unit and supply frequency

Step	Press buttons (M) and (mA/+) and connect the unit to the power supply.		
1	Cod	0 ... 255	Enter access code and confirm with (M)-button
2		gAL or L, t	The unit of the flow rate appears in the display. Change unit by pressing button (mA/+) and confirm with (M)-button
3		50 or 60	The value of the frequency (in Hz) appears in the display. Change frequency by pressing button (mA/+) and confirm with (M)-button
4	Setup - procedure		

Each time after changing the unit the following parameters are set to default values:

Parameter	[gpm]	[l/min]
SP	50	50
hS	0.2	0.5
A4	00	00
A20	200	75.7

Reset

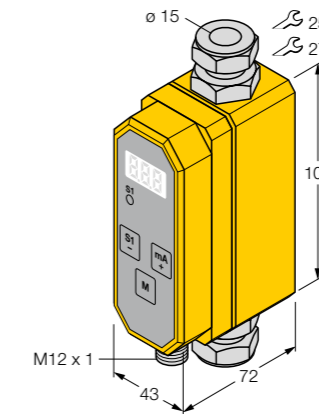
Step	Press button (M) and connect the unit to the power supply.		
1	rES		Appears in the display
2	Cod	0 ... 255	Enter access code and confirm with (M)-button
3	rES		
4	Setup - procedure		

After achieving the RESET-function all parameters are set to default values:

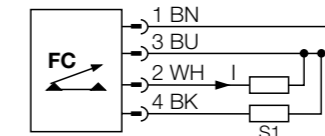
Unit	gAL
Supply frequency	60
Parameter	[gpm]
Cod	0
SP	50
hS	0.2
OU	n0
dS	00
dr	00
nF ₁	8
A4	00
A20	200

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Geräteübersicht/Device Overview



Anschlussbild/Wiring Diagram



Technische Daten/Technical Data

Technical Data	
Versorgungsspannung/Supply Voltage	24 VDC ± 10 % (1BN: + / 3BU: -)
Stromaufnahme/Current consumption	100 mA
Umgebungstemperatur/Ambient temperature	32 °F...140 °F / 0...60 °C
Ausgang Schaltpunkt/Output switch point	PNP (4BK)
Ausgang Analog/Output analogue	4...20 mA (2WH)
Schaltstrom/Switching current	max. 0.2 A
Last/Load	200...500 Ω
Mediumtemperatur/Medium temperature	41 °F...140 °F / 5...60 °C
Erfassungsbereich/Detection range (für leitfähige Medien/for conductive media ≥ 20 µS/cm für Wasser/for water ≥ 35 µS/cm)	(-4.9) 0...20.0 gpm (-9.9) 0...75.7 l/min
Messwertabweichung*/Measuring tolerance*	0.0 ... 2.0 gpm / 0.0 ... 7.6 l/min ≤ ± 0.1 gpm / 0.37 l/min 2.1 ... 20.0 gpm / 7.7 ... 75.7 l/min ≤ ± 2 % of measuring value
Einstellbereich Schaltpunkt/Adjustment range SP1	1.0...20.0 gpm / 3.7...75.7 l/min
Hysteresis Schaltpunkt/Hysteresis switch point SP1	0.1...2.0 gpm / 0.4...7.5 l/min
Einschaltverzögerung/Switch-on delay	0...50 s
Ausschaltverzögerung/Switch-off delay	0...50 s
Reaktionszeit/Response time	0.5...8 s
Material Sensor/Sensor material	PVDF / 1.4571
Material Gehäuse/Housing material	PBT
Schutzart/Protection class	IP 65
Druckfestigkeit/Pressure resistance	10 bar
Zugangscode (Werkseinstellung)/Access code (factory setting)	0

* Ambient temperature 20...30 °C, Medium temperature 20 °C, electr. conductivity 300...500 µS/cm