

Next level F1-Series

Discover the next generation of F1-Series level indicators, monitors, and controllers! This sheet highlights the four powerful products that not only include the features of our previous F1-level-Series, but also bring a broad range of enhanced capabilities. Explore how the F-Series takes performance, functionality, and reliability to the next level!

	F170	F173	F174	F175
Level Monitor	Yes			
Level Controller	No	Yes		
Advanced Pump Controller	No		Yes	
Open Channel Flow Monitor & Totalizer	No			Yes, Dual Flow A/B (linear, table, weir / flume formula)
Advanced Pump Control Functions	No		Individual setpoints, pump groups, manual & automatic pump switching (pump order or running hours)	
Dual Line Display	Level & Content		Level & Volume	Level, Volume, Flow rate & Total
Bargraph	Yes, indication according to the top line display information			
Measurement Units	Level: Height, mA, % and custom Content: Volumetric, mass, % and custom		Level: Height, mA, % and custom Volume: Volumetric, % and custom Flow (F175): Volumetric & time interval	
Configurable Sub Menu	No		Yes	
Level Input Signal	Easy 4 - 20mA level input calibration, no multimeter required. With reverse input setting.			
HART Transparent	Yes, for the input signal.			
Error Detection	No	Input signal configurable according Namur NE 43		
Level Conversion / Linearization	No	48 point table for Level to Content	48 point table for Level to Volume	48 point table for Level to Volume or Level to Flow (A/B)
Remote Control Inputs	No	3 switch inputs with (6/11/15) configurable functions (incl. latching)		

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Analog Output Function	According level, content or analog input signal retransmission		According level, volume or analog input signal retransmission	According level, volume, flow rate A/B or input signal retransmission
Error Transmission	No	Output signal configurable according Namur NE 43		
Analog Output Signal	Isolated loop-powered, active or isolated (passive)		Active or isolated (passive)	
Digital Output Function	Alarms	Alarms and control inputs	Alarms, pump control and control inputs	Alarms, pump control, scaled / sample pulse and control inputs
Alarm Values	Low-Low / Low / High / High-High, with delay and silence function			
Hysteresis	No	Configurable for balanced, unbalanced and absolute setpoints		
Digital Outputs	4 passive transistor outputs or up to 4 heavy duty relay outputs		Up to 4 heavy duty relay outputs	
Test Modus	Analog and digital outputs	Analog and digital outputs, remote control inputs,		
Power Supply	10 - 27V DC with sensor supply, U_{sensor} is 1V below U_{supply}		No	
Isolated Power Supply	12 - 24V AC / 12 - 30V DC, with regulated 24V DC sensor supply			
Isolated Mains Supply	115 - 230V AC, with regulated 24V DC sensor supply			
Communication	Modbus RS485 2-wire, isolated RS485 2-wire, RS232 or USB-C port			
Remote Configuration	Yes, with free downloadable configuration software. Connect with Modbus communication or USB-C port.			
Intrinsically Safe	Optional: ATEX and IECEx certified (contact us for specifications)		No	