



Delivery

A. MICROPROCESSOR BASED FLOW CONTROLLERS



☆ . User Selectable Scaling Factors	☆ . Wide range multiplier	Weeks
☆ . Selectable Square Root Function	☆ . Low Frequency Pulse Input	
☆ . 72 x 72 x 110 mm Enclosure	☆ . Wide Dynamic Flow Range	
1. A4452 : 2 Set Point Batch Controller	(6 Digit, Total Flow / Press. I/P)	02
2. A4454 : Flow Rate Indicator with Totaliser	(6 Digit, Total Flow / Press. I/P)	02
3. A4455 : Flow Indicator with Sqrt.	(4 Digit Flow / Press. I/P)	02
4. A4456 : Pulse I/P 2 SV Batch Controller	(6 Digit, Total, LF Pulse I/P)	02
5. A4458 : Pulse Flow Indicator with Totaliser	(6 Digit, Total, LF Pulse I/P)	02
6. A4459 : Pulse Flow Rate Indicator	(4 Digit Flow Rate, Pulse I/P)	02
☆ . Option : RS232 to RS485 Simplex Serial Transmission Capability		
☆ . Option : WP1 - Weather Proof Housing as per IP55		04
☆ . Option : FP3 - Explosion Proof Housing IS : 2148 for Gr 1, IIA & IIB		04

B. FLOW INDICATORS & CONTROLLERS WITH ANALOG OUTPUT



☆ . Selectable Pressure & Flow Inputs	☆ . Wide Dynamic Range	
☆ . Linearised & Isolated 4 - 20 mA Flow Output	☆ . 96 x 96 x 200 mm Housing	
☆ . Electromagnetic Counter with Totaliser	☆ . Non - volatile memory	
1. A5452 : 2 Set Point Batch Controller	(6 Digit, Total Flow / Press. I/P)	02
2. A5454 : Flow Rate Indicator with Totaliser	(6 Digit, Total Flow / Press. I/P)	02
3. A5455 : Flow Indicator with Sqrt.	(4 Digit Flow / Press. I/P)	02
4. A5456 : Pulse I/P 2 SV Batch Controller	(6 Digit, Total, LF Pulse I/P)	02
5. A5458 : Pulse Flow Indicator with Totaliser	(6 Digit, Total, LF Pulse I/P)	02
6. A5459 : Pulse Flow Rate Indicator	(4 Digit Flow Rate, Pulse I/P)	02
☆ . Option : For Additional Electronic Counter	6 Digit LED or 7 Digit LCD	04
☆ . Option : WP1 - Weather Proof Housing as per IP55		04
☆ . Option : FP3 - Explosion Proof Housing IS : 2148 for Gr 1, IIA & IIB		04

C. FLOW SENSORS - POSITIVE DISPLACEMENT FLOW METERS (PDMs)

☆ . Max. Operating Temperature	: 200°C
☆ . Accuracy	: ± 0.5 %
☆ . Max. Operating Pressure	: 10 kg / cm ²
☆ . Max. Viscosity	: 2000 CST
☆ . Pressure Drop at Max. Flow Rate	: 0.2 to 0.3 kg / cm ²
☆ . MOC : PDM	: SS 304 / SS 316 / Aluminium / Brass / Teflon
	: Piston : Derlin / Teflon
☆ . Calibration	: Calibrated on Water
☆ . Applications	: Useful for fuels like LDO, HDO, Furnace Oil, Kerosene Oil, Petrol etc.



1. PDFM004	: Size : 4 mm E. C. : 1/8" BSP	(Flow Range : 0.2 - 1.0 LPM at CST)
2. PDFM008	: Size : 8 mm E. C. : 1/4" BSP	(Flow Range : 0.5 - 3.0 LPM at CST)
3. PDFM012	: Size : 12 mm E. C. : 3/8" BSP	(Flow Range : 1.0 - 6.0 LPM at CST)
4. PDFM015	: Size : 15 mm E. C. : 1/2" BSP	(Flow Range : 2.0 - 12.0 LPM at CST)
5. PDFM020	: Size : 20 mm E. C. : 3/4" BSP	(Flow Range : 4.0 - 24.0 LPM at CST)
6. PDFM025	: Size : 25 mm E. C. : 1" BSP	(Flow Range : 6.0 - 36.0 LPM at CST)
7. PDFM032	: Size : 32 mm E. C. : Flanged End	(Flow Range : Upto 300 LPM at CST)
8. PDFM040	: Size : 40 mm E. C. : Flanged End	(Flow Range : Upto 300 LPM at CST)
9. PDFM050	: Size : 50 mm E. C. : Flanged End	(Flow Range : Upto 300 LPM at CST)



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D . FLOW SENSORS - TURBINE FLOW METERS

☆ . Max. Operating Temperature	: 250°C	Weeks
☆ . Accuracy	: ± 0.5 % (Over 1 : 5 Flow Range Incl. of Linearity & Repeatability)	
☆ . Max. Operating Pressure	: As per Flange Specs	
☆ . Calibration	: Calibrated on Water	
☆ . Pressure Drop at Max. Flow Rate	: 0.05 to 0.2 kg / cm ²	
☆ . MOC : TFM	: SS304 / SS316 Throughout / PP / PVC	
: ROTOR	: Teflon / SS / Derlin	
: BEARING	: Ceramic Bush Bearing	
☆ . Applications	: Useful for fuels like LDO, HDO, Furnace Oil, Kerosene Oil, Petrol etc.	

1. TFM015	: Size : 15 mm E. C. : Threaded	(Flow Range : 10 to 30 LPM)
2. TFM020	: Size : 20 mm E. C. : Threaded	(Flow Range : 20 to 60 LPM)
3. TFM025	: Size : 25 mm E. C. : Threaded	(Flow Range : 30 to 90 LPM)
4. TFM032	: Size : 32 mm E. C. : Flanged	(Flow Range : 45 to 160 LPM)
5. TFM040	: Size : 40 mm E. C. : Flanged	(Flow Range : 60 to 240 LPM)
6. TFM050	: Size : 50 mm E. C. : Flanged	(Flow Range : 125 to 500 LPM)
7. TFM065	: Size : 65 mm E. C. : Flanged	(Flow Range : 200 to 800 LPM)
8. TFM080	: Size : 80 mm E. C. : Flanged	(Flow Range : 300 to 1200 LPM)
9. TFM100	: Size : 100 mm E. C. : Flanged	(Flow Range : 450 to 1800 LPM)
10. TFM150	: Size : 150 mm E. C. : Flanged	(Flow Range : 1000 to 4000 LPM)

ORDERING INFORMATION : -

While ordering please provide the following information :

Name of the Fluid	: _____
Nature of the Fluid	: Corrosive / Non Corrosive
Presence of Solids in the Fluid	: Yes / No If yes the provide details
Specific Gravity of the Fluid	: _____
Flow Rate	: Minimum : _____
	: Nominal : _____
	: Maximum : _____
Operating Temperature (Max.)	: _____ °C
Operating Pressure (Max.)	: _____ kg / cm ²
Viscosity at Operating Temperature	: _____ CST (Max.)
Nominal Bore of the Pipeline	: _____ mm
Readout Display	: Model : _____ (Please select from the following)
72 x 72 Series	: (A4452 / A4454 / A4455 / A4456 / A4458 / A4459)
96 x 96 Series	: (A5452 / A5454 / A5455 / A5456 / A5458 / A5459)
Power Supply	: 230 V AC. If other, please speify : _____
Sensor MOC	: SS304 / SS316 If other, please specify : _____

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☆ AUTOPRO IS THE FIRST NAME FOR THE LAST WORD IN INNOVATIVE INSTRUMENTATION ☆