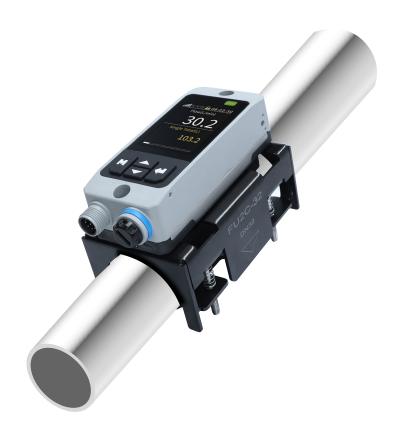
www.eyc-tech.com





Features

- Suitable for all kinds of liquids
- Suitable for all kinds of pipes, measuring range (DN08 ~ DN50)
- No need to cut the pipe for installation and used without downtime
- Quick installation, set the pipe diameter to complete the installation and measurement
- No contact with liquid, not afraid of dirt and corrosion, zero pressure loss

| Applications |

Process Precision Control and Leak Detection / Water Resources and Wastewater Treatment / HVAC Cooling Tower Systems and Energy Management / Industrial Process Monitoring and Control / Beverage Canning Machines / Machine Tool Coolant Management / Drainage Management and Detection Systems





www.eyc-tech.com

	Data Retention Time	Approx. 1 year
DN8 (1/4") DN50 (2")		
	Power I/O Connector	M12 8pin connector
Stainless steel, Carbon steel,		
Copper pipe, Aluminum pipe, PVDF,	, Output	
CPVC, PVC, PPR, PPH, PFA, HDPE	Switch Output	Instant / Window / Pulse / Accumulated / Error / No Signal
		NPN / PNP switchable open collector output : \leq 26.4 VDC,
0°C 85°C		≤ 80 mA/ch, residual voltage ≤ 2.5 V
(Pipe surface must not be frozen)	Analog Output	$1 \dots 5 V / 0 \dots 10 V$ (switchable) Load resistance : $50 k\Omega$
		4 20 mA / 0 20 mA (switchable) Load resistance : \leq 300 Ω Note
19.6 589 L/min	Communication Interface	RS-485
	Relay Output	Relay output : ≤ 27VDC, max 250 mA, freq. <2Hz
0.3 6 L/min		
	Power Supply	
Transmission Time Difference	Supply Voltage	DC24V±10% Note 6
	Current Consumption	≤200 mA Note 7
TFT2.0"		
	Protective Circuit	Power reverse protection, surge protection,
4times/sec		output short-circuit protection Note 8
	Environmental Decista	nco
0.01.0.1.1.1/		
U.U1, U.1, 1 L (up to 8 digits)		- 20°C +60°C (no freezing)
05 10 05 50 100		35% 85%RH (non-condensing)
0.5s, 1.0s, 2.5s, 5.0s, 10.0s	Vibration Resistance	10Hz to 500 Hz power spectral
		density: 0.816 G ² /Hz (X, Y, Z directions)
	Manuelanana	
	мепи Language	Traditional Chinese, English
±1% of F.S. Note 1, 2, 3	. Calanadan Battama	
	Calendar Battery	CR1220
±0.8% Note 2, 4	 	
	Applicable Medium	Water, solution, chemical reagents (impurities ≤ 4%)
L/min, m³/h	 	200
	Applicable Viscosity	<300CST (mm²/s)
0.1 999.99 L		
	Weight	DN8 / DN10 : 316 g , DN15 / DN20 : 309 g DN25 / DN32 : 392 g , DN40 / DN50 : 503 g
	Stainless steel, Carbon steel, Copper pipe, Aluminum pipe, PVDF CPVC, PVC, PPR, PPH, PFA, HDPE 0°C 85°C (Pipe surface must not be frozen) 19.6 589 L/min Transmission Time Difference	DN8 (1/4") DN50 (2") Power I/O Connector Stainless steel, Carbon steel, Copper pipe, Aluminum pipe, PVDF, CPVC, PVC, PPR, PPH, PFA, HDPE O°C 85°C (Pipe surface must not be frozen) 19.6 589 L/min Communication Interface Relay Output Power Supply Transmission Time Difference TFT2.0" Protective Circuit 4times/sec Environmental Resista 0.01, 0.1, 1 L/min 0.01, 0.1, 1 L (up to 8 digits) Operating Humidity 0.5s, 1.0s, 2.5s, 5.0s, 10.0s Vibration Resistance y ±2% of F.S. Note 1, 2, 3 ±1% of F.S. Note 1, 2, 3 L/min, m³/h L/min, m³/h Applicable Medium Applicable Viscosity 0.1 999.99 L

Note:

- 1. The ultrasonic-measured liquid must not contain large amounts of bubbles. Measurement may become unstable depending on pipe material and conditions.
- $2. \ Errors \ may \ occur \ due \ to \ the \ type \ of \ piping, \ condition, \ fluid \ type, \ and \ fluid \ temperature \ used \ by \ the \ customer.$
- $3.\,Zero-point\,adjustment\,was\,performed\,in\,a\,controlled\,environment\,at\,25^\circ\,C, considering\,linearity\,error.$
- 4. The definition assumes a stable velocity distribution. It does not account for pulsations or variations caused by equipment. The stated F.S. (Full Scale) should be interpreted using the rated flow range.
- 5. The output impedance of the analog voltage type is approximately $1 \text{ k}\Omega$. If the load impedance is low, the output value may differ significantly. Please verify and account for load impedance error before use.
- 6. DC24V connection current varies depending on whether a load is connected. Consumption current may also vary. Please take special care.
- 7. Load current must be below 200 mA. (Excluding expansion module)
- 8. The built-in protection circuit only covers specific error conditions and load short circuits. It does not guarantee protection against all wiring errors.





www.eyc-tech.com

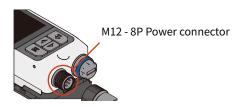
| Flow range |

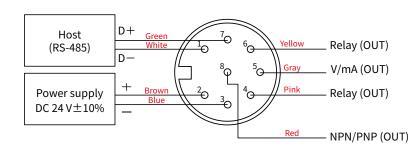
Pipe Diameter	DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50
Minimum Flow Rate	0.6 L/min	0.94 L/min	1.06 L/min	1.88 L/min	2.94 L/min	4.82 L/min	7.54 L/min	11.8 L/min
Maximum Flow Rate	19.6 L/min	30.62 L/min	53 L/min	94.2 L/min	147.2 L/min	241.15 L/min	376.8 L/min	589 L/min

Note 1: For minimum flow rate \emptyset 15 and above, flow is calculated at 0.1 m/s velocity; for \emptyset 15 and below, at 0.2 m/s.

Note 2: For maximum flow rate \emptyset 15 and above, flow is calculated at 5.0 m/s velocity; for \emptyset 15 and below, at 6.5 m/s.

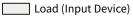
| Diagram |





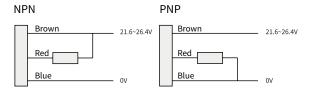
Wiring

Unused input wires must be individually insulated.



Analog voltage/current input device

1. Wiring for switch output channel



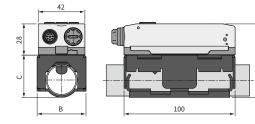


3. Wiring for relay output channel



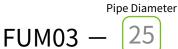
*Selectable output : 0 ... 20 mA / 4 ... 20 mA / 1 ... 5 V / 0 ... 10 V (via configuration)

Dimension | Unit:mm



Dia	Pipe ameter	DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50
	e Outer ameter	ø13 ø16	ø16 ø18	ø18 ø23	ø23 ø28	ø28 ø37	ø37 ø44	ø44 ø52	ø52 ø64
	Α	54.9	56.9	61.9	66.9	75.9	82.9	90.9	99.7
	В	44	44	44	44	60	60	84	84
	С	26.4	28.9	32.8	39	46.2	54.6	60.9	70

Ordering Guide |



08 : DN8 10 : DN10 15 : DN15 20 : DN20 25 : DN25 32 : DN32 40 : DN40 50 : DN50