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Air Velocity-FTS140

FTS140 Hot Wire Air Velocity Transmitter

Using mass flow principle, a better choice for HVAC engineering



| Features |

- Hot wire mass flow transmitter
- IP rating: IP54
- Linear adjustment function
- Switching analog output by dip switch
- The housing and probe material are PC fire-proof

|Introduction|

FTS140 hot wire air velocity transmitter, using mass flow measuring principle, stable electrical bridge with good accuracy, simple structure, stable performance and low flow sensitivity.

It is suitable for use in HVAC air conditioning environment measurement, optimization and adjustment of system performance, ventilation control.

Duct type, easy installation, suitable is used extensively in environmental engineering projects, as facility and factory maintenance.

| Applications |

Monitoring air and flow for industrial process / HVAC / $\mathsf{Building}$ / $\mathsf{Factory}$



Air Velocity-FTS140

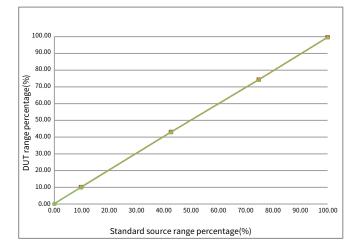
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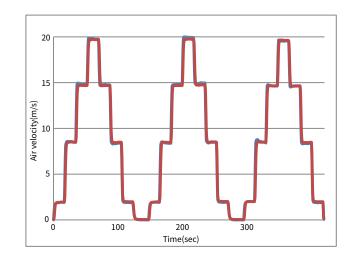
|Specification|

	Electrical	
Hot wire mass flow transmitter	Power supply	DC 24 V & AC 12 30 V
0 20 m/s	Current consumption	DC 24 V:120 mA /
0.2 m/s		AC 12 V : 350 mA /
(When the installation angle < 10°)		AC 24 V:180 mA
\pm 3%F.S.(Nonlinear error, Hysteresis	Overvoltage protection	DC: <40 V ; AC : <40 V
	Electrical connections	Terminal
4 20 mA / DC 0 10 V	Installation & Protection	
3-wire	Installation	Duct type / Flange type
Current output∶≦500 Ω	IP rating	IP54
Voltage output∶≧10 KΩ	Electrical protection	Polarity protection Over-voltage
t90≦5 sec(τ∶90%)		Short-circuit
	Certification	
±3%F.S.	Certification	CE
0.3% / °C		
	Material	
	Housing / Probe	PC fire-proof(UL94V-2) / PC fire-proof
Air;050°C	Probe head / Wire	PC
0 50°C	Weight	~150 g
95%RH(Non-condensing)		
-20 +60°C		
	020 m/s 0.2 m/s (When the installation angle < 10°) ±3%F.S.(Nonlinear error, Hysteresis 420 mA / DC 010 V 3-wire Current output : ≤500 Ω Voltage output : ≥10 KΩ t90≤5 sec(τ : 90%) ±3%F.S. 0.3% / °C Air ; 050°C 050°C 95%RH(Non-condensing)	Hot wire mass flow transmitterPower supply $0 \dots 20 \text{ m/s}$ Current consumption 0.2 m/s Current consumption 0.2 m/s Overvoltage protection(When the installation angle<10°)

*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

| 3-Cycle curve |





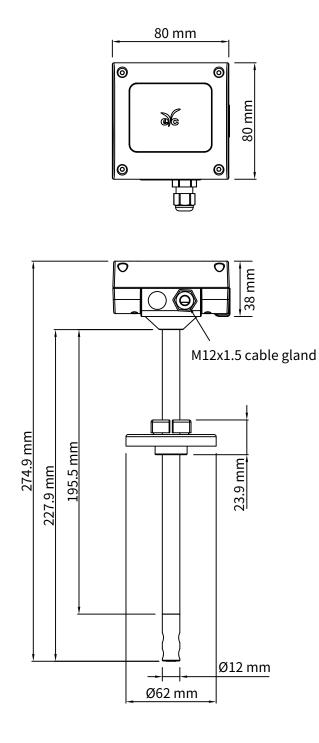


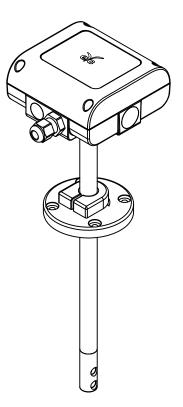
F2201-FTS140

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| Dimension |

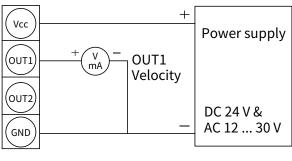






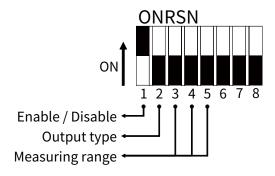
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| Connection Diagram |



4P Terminal

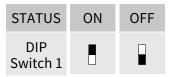
| DIP Switch |



For FTS140 products, the setting status of DIP switch will be read by software while power on, and this reading action will not happen later on. Thus in order to read the DIP switch status again by software, the user must to reboot again if re-setting the DIP switch. The function of DIP Switch_2 to 5 only be effective

while setting the DIP Switch_1 as "On".

1. DIP switch active / deactivate : Set the DIP switch as On/ Off



3. Setting the output measuring range : Set the maximum value for analog output (The output physical type must be "Air Flow Velocity")

DIP	DIP	DIP	Rang
Switch 3	Switch 4	Switch 5	(m/s)
			20

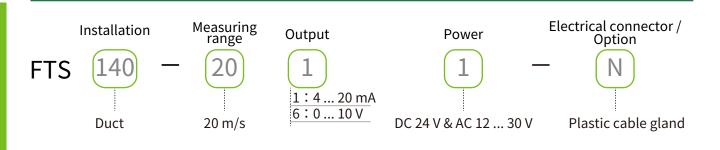
2. The type for analog output: Analog output type for Out1 & Out2

STATUS	0 10 V	4 20 mA
DIP Switch 2		

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Ordering Guide |



Additional Option Test Report | For more detailed information please contact us.

ILAC / TAF

YUDEN-TECH CO., LTD. Calibration Laboratory - (ILAC / TAF) Test report. (TAF accreditation: 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Air velocity transmitter	0.2 m/s 60 m/s

ISO 9001

Project	Measurand level or range
Air velocity / Air volume	Air velocity $\therefore \leq 120 \text{ m/s}$
	Air volume:0.5 m³/h 1000 m³/h