

TAVT-1603 Digital Thermo Air Velocity Transmitter

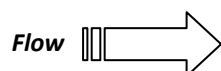


Feature

- Capable of temperature compensation and linear adjustment
- Double line character : air velocity & temperature
- Switch for physical quantity : [m/s] 、 [ft/s] 、 [km/h] 、 [mph] 、 [knot]
- RS-485 Communication interface, Modbus RTU protocol
- Configuration measuring range/analog output/ station number by dip switch or RS-485
- Off SET function by bottom or RS-485
- Programmable software : DATA LOGGER, record, and chart analysis

Application Field

- Monitor gas and flow for industrial process
- Compressed air consumption measurement
- HVAC, building, factory, Clean room, hospital
- Semiconductor, electronics, paper, iron and steel , food, Pharmaceutical, biotechnology industry



TAVT-1603

Digital Thermo Air Velocity Transmitter

Specification

Input

Input type of Air Velocity	1 m/s ; 2 m/s ; 5 m/s ; 10 m/s ; 20 m/s ; 40 m/s
Input type of Temperature	PT 1000, 0 ~ 80°C

Output

Output	0~20 mA / 4~20 mA / 0~1 VDC / 0~5 VDC / 0~10 VDC
Default output	out1 : air velocity ; out2 : temp. : 0 ... 80°C
Signal connection	3-wire
Accuracy	Air velocity : $\pm 3\%$ F.S. Temp. : $\pm 0.3^\circ\text{C}$
Load resistance (current output)	< 500 Ω
Load resistance (voltage output)	>10 K Ω
Response time	reach 90% of ultimate value within 3 sec.
Angular dependence	3% of measuring value (when the angle < 10°)
Display type	LCD Module with back light
Display range	Upon request, one decimal place
Height of character	Double line character (up : velocity & down : temp.) 5.56mm

Environment

Media measured	Air
Measured Medium Temperature	0 ~ 80°C working
Working Temperature	0 ~ 50°C working
Environment Humidity	95 %RH (non-cond.)
Storage temperature	-20 ~ 60°C
Proof pressure for probe	10 Bar

Electrical

Power supply	8~35VDC & 12~30VAC
Current consumption	DC 8V : 300mA / 24V : 100mA / AC 12V : 350mA / 24V : 180mA
Overvoltage protection	DC : < 45V / AC : < 40V
Electrical connection	M12 connector

Installation

Installation	duct / remote
Way to fix	1/2 PT outside thread

Protection

Protect degree	IP 65
Electric protection	Ⓢover-voltage Ⓢpolarity

Material

Case	PC fire-proof class
Probe	SS304
Filter	POM
Cable	PTFE
Option	SS304 Fitting thread / Flange type



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Ordering Guide

Ordering code	----->	TAVT1603	-	40	1	1	1	5	M
Installation									
Range									
Output									
Power supply									
Modbus									
Cable (for remote type)									
Option									

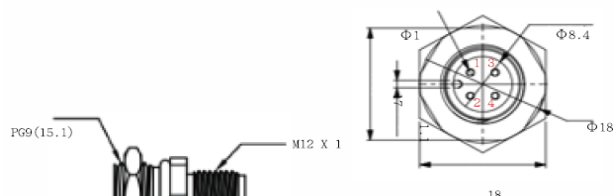
Installation code	Range code	Output code	PowerSupply code	Modbus code	Cable code	Option code
duct / remote	1 m/s 01 2 m/s 02 5 m/s 05 10 m/s 10 20 m/s 20 40 m/s 40 60 m/s 60	4~20mA 1 0~20mA 2 0~10V 6 0~5V 7 0~1V 8 RS-485 9	8~35VDC & 1 12~30VAC	analogue 0 RS-485 1 RS-485 & analogue 2 ※ Q type - M12 (8P) metal connector or N type - M16 cable gland	2 m cable 2 5 m cable 5 customize W	cable gland N M12 (4P) connector M (with 2 m electrical cable) M12 (8P) connector Q (with 2 m electrical cable) display D other request W

Electric Connector

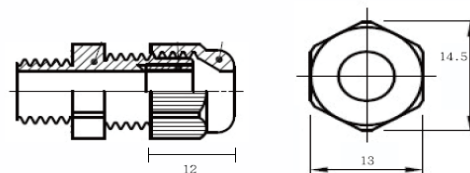
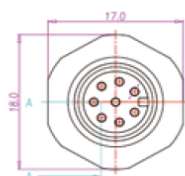
unit : mm

【 M type (M12-4PIN metal connector) RS-485 or analogue

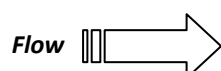
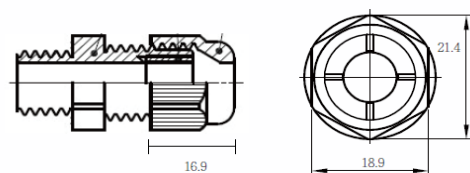
【 N type (M12 cable gland) 】 RS-485 or analogue



【 Q type (M12-8PIN metal connector) RS-485+analogue



【 N type (M16 cable gland) 】 RS-485+analogue

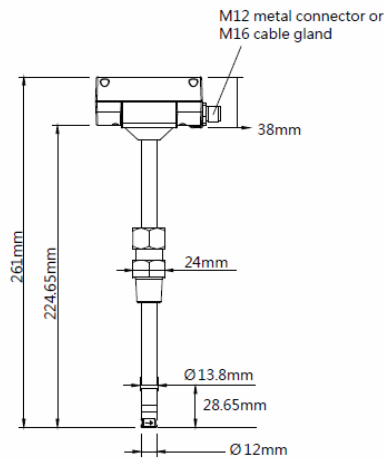


Teksens

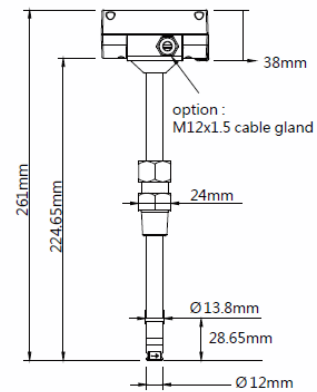
TAVT-1603 EN 1608

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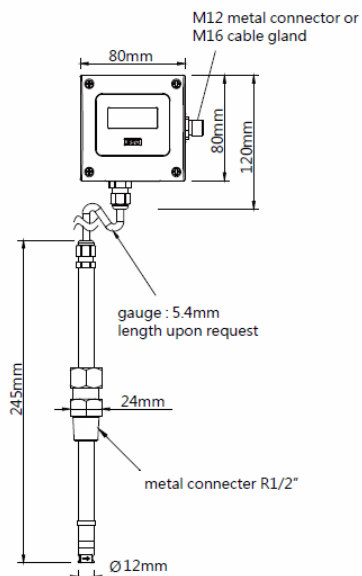
Dimensions



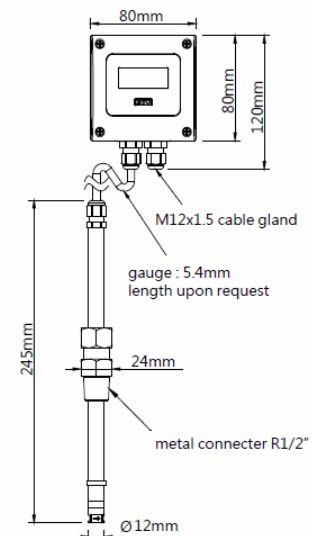
N type (M16) or Q type (M12, 8P) : RS-485+analogue
M type (M12, 4P) : RS-485 or analogue



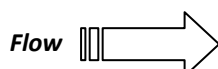
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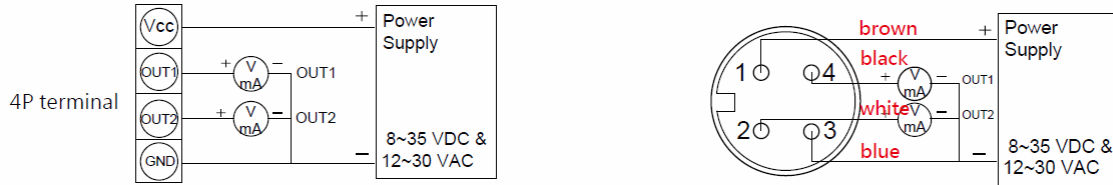


N type : RS-485 or analogue

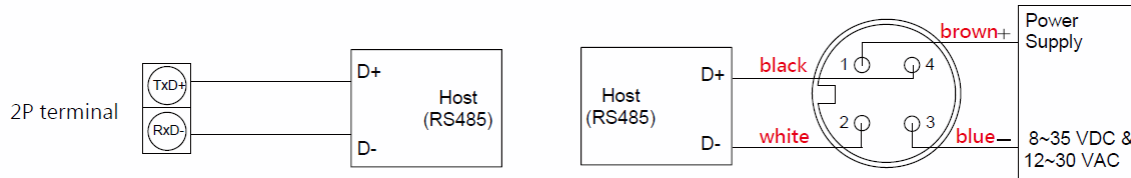


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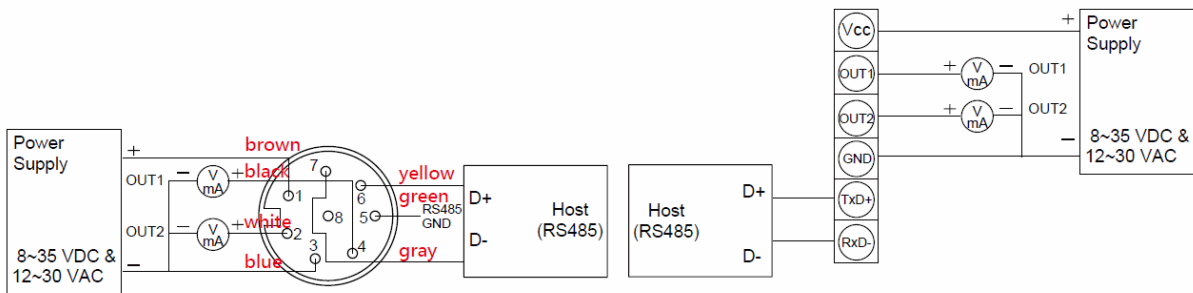
Analogue Diagram



RS485 Diagram



Analogue + RS485 Diagram



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