

TRX/TRZ

Ultrasonic Flow Meters for Air (RS485 Output Specifications)



Features

A new flow meter with a new function (RS485 Output) has been added to the popular lineup of the TRX/TRZ series. It helps you save energy by measuring and “visualizing” flow rate, temperature and pressure.

Major specifications

For the specifications not described in the table, please check with the model with the relevant diameter listed in the “Detailed specifications” section above.

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Model		TRX□□R-C/5P	TRZ□□□R-C/5P
Diameter (Nominal diameter)		25,32,40,50,65,80A	100,150,200A
Power source		24VDC±10% (Power consumption: 1.5 W or less)	
Measurable Fluids		Air (Mainly the air in a factory) or nitrogen (The configuration can be changed on-site.)	Air (Mainly the air in a factory)
Conversion	Normal	A flow rate corrected to the normal condition of 0°C and 1 atm.	

	conversion		
	Standard conversion	A flow rate corrected to the standard condition of a specified temperature (configure in the flow meter) and 1 atm.	
Display (when converting) *1	Main display	[Forward flow display mode] Accumulated flow rate: 00000000.0 (m ³ /h) in 9 digits Trip accumulated flow rate: 0000000.0 (m ³ /h) in 8 digits Instantaneous flow rate: 00000.00 (L/min) in 7 digits	[Forward flow display mode] Accumulated flow rate: 0000000000 (m ³ /h) in 10 digits Trip accumulated flow rate: 000000000 (m ³ /h) in 9 digits Instantaneous flow rate: 00000.00 (L/min) in 7 digits
		[Forward and reverse flow display mode] Forward accumulated flow rate: 00000000.0 (m ³ /h) in 9 digits Reverse accumulated flow rate: -0000000.0 (m ³ /h) in 8 digits Instantaneous flow rate: 00000.00 (L/min) in 7 digits	[Forward and reverse flow display mode] Forward accumulated flow rate: 0000000000 (m ³ /h) in 10 digits Reverse accumulated flow rate: -000000000 (m ³ /h) in 9 digits Instantaneous flow rate: 00000.00 (L/min) in 7 digits
	Sub display	Instantaneous flow rate: 0000.0 (less than 10000 m ³ /h) in 5 digits; 00000 (10000 m ³ /h or higher) in 5 digits	
		Pressure: 0000.0 kPa in 5 digits; Temperature: 00.0°C in 3 digits	
Output	Current output	1 system: 4 to 20 mA (± 0.1 mA); Load resistance: 400 Ω or less; Upper output current: 22 mA Select the output from the instantaneous flow rate, pressure and temperature by pressing a button.	
	Contact output	Nch open-drain output 1 system: Unit pulse (Forward flow); Maximum load: 24 VDC, 50 mA	
		Output method: Select from Duty (35% to 65% maximum frequency: 10 Hz) or One-Shot (Select ON time from 50 ms, 100 ms, 125 ms, 250 ms and 500 ms by pressing a button).	
	Communication *2	1 system: Complies with RS 485 Modbus /RTU Communication bit rate: Select from 9600 bps, 19200 bps, 38400 bps, 57600 bps and 115200 bps by pressing a button.	

*1: In the actual flow measurement setting, the digits of the accumulated flow rate display, instantaneous flow rate display and pulse output vary.

*2: The communication specifications are available on our product website.