	Product Specifications		Ver. 5	1/5
	Ultrasonic Flow Meter for Air (RS485 Type)	Model	TRZ [Nominal diameter] R – C/ 5P	

## 1. Specifications

- ◎ Model    ☐ 100A (TRZ100R-C/5P)  
               ☐ 150A (TRZ150R-C/5P)  
               ☐ 200A (TRZ200R-C/5P)

Flow-rate range (actual flow-rate) (accuracy guaranteed scope)  
[m<sup>3</sup>/h]

Model	TRZ100	TRZ150	TRZ200
Flow rate range	± 10 to 500	± 24 to 1200	± 40 to 2000

Accuracy (actual flow rate)

- Flow-rate measurement accuracy

		[m <sup>3</sup> /h]		
Model		TRZ100	TRZ150	TRZ200
Accuracy	±5%RD	± 10 to 50	± 24 to 120	± 40 to 200
	±2%RD0	± 50 to 500	± 120 to 1200	± 200 to 2000

- NORMAL conversion

±2.5%RD (0.5MPa, ordinary temperature and, dry air)


Low flow cutoff (actual flow rate) Can be Changeable by button operation (0 ≤ Setting value < Qmin)

[m <sup>3</sup> /h or less]			
Model	TRZ100	TRZ150	TRZ200
Initial setting value	± 2.6	± 5.0	± 9.0

Response-ability    Update interval    2 seconds

Smoothing of instantaneous flow rate value by moving average method (initial setting value: 4 times)

"◎" are selectable items.

	Product Specifications		Ver. 5	2/5
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#### Display

Main display: The following is switched and selected using the “left button”.

[When forward flow display mode <sup>\*1)</sup> is selected]

Accumulated flow volume (forward flow) (m<sup>3</sup>)·Trip accumulated flow volume (forward flow) (m<sup>3</sup>)·Instantaneous flow-rate (L/min) <sup>\*2)</sup>

[When reverse flow display mode <sup>\*1)</sup> is selected]

Accumulated flow volume (forward flow) (m<sup>3</sup>)·Accumulated flow volume (reverse flow) (m<sup>3</sup>)·Instantaneous flow rate (L/min) <sup>\*2)</sup>

Sub display: The following is switched and selected using the “right button”.

Instantaneous flow rate (m<sup>3</sup>/h)·Pressure (kPa) [gauge pressure]·Temperature (°C)

<sup>\*1)</sup> The display mode is selected by button operation.

<sup>\*2)</sup> If an instantaneous flow-rate (L/min) is displayed, the main display (accumulated flow rate) and sub display (instantaneous flow rate (m<sup>3</sup>/h), pressure (kPa) and temperature (°C)) are not displayed.

#### Number of digits displayed

##### Main display

Accumulated flow rate (Forward flow) [m <sup>3</sup> ]	:	000000000000	10 digits
Trip accumulated flow rate (Forward flow) [m <sup>3</sup> ]	:	└ 000000000	9 digits
Accumulated flow rate (Reverse flow) [m <sup>3</sup> ]	:	-000000000	9 digits
Instantaneous flow rate [L/min]	:	0000000	7 digits

Unit: Selected by button operation and communication

When NORMAL flow is selected	When standard flow is selected	When actual flow is selected
m <sup>3</sup> (NORMAL)	m <sup>3</sup> (Standard)	m <sup>3</sup>

##### Sub display

Instantaneous flow-rate [m <sup>3</sup> /h]: 0000.0 (less than 10000)	5 digits
00000 (10000 or more)	5 digits

Unit : Selected by button operation and communication


When NORMAL flow is selected	When standard flow is selected	When actual flow is selected
m <sup>3</sup> (NORMAL)	m <sup>3</sup> (Standard)	m <sup>3</sup>

Pressure [kPa]	:	0000.0	5 digits
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Temperature [°C]	:	00.0	3 digits
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	Product Specifications		Ver. 5	5/5
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Accessories	M4 Hexagonal wrench Centering collar (wafer type only) Flange packing (wafer type only) Bolt set (wafer type only)  Power supply / output cable (six-core cable) [option] ☉ Cable length: <input type="checkbox"/> 5 m <input type="checkbox"/> 20 m Wire connection: Open drain output 1 ..... White Open drain output 2 ..... Yellow 4 to 20 mA output (+) ... Red 4 to 20 mA output (-) .... Green Communication ..... Brown GND ..... Black  <u>"☉" is selectable.</u>
Others	CE marking, UKCA marking, RoHS Directive compliant

## 2. Precautions in handling

### 2-1. Installation environment

- (1) Although the high weather-proof electronic display is adopted, in case of installation at a place subjected to direct .
- (2) Do not install the flow meter at a place with much electromagnetic noise or in corrosive atmosphere.
- (3) This product is designed for outdoor installation, but avoid areas where there is a risk of water submergence and water always splashes.
- (4) When opening or closing a valve before and after the flow meter, open or close the valve not all at once but gradually.

### 2-2. Piping conditions

- (1) To realize stable measurement, it is recommended to install a straight pipe portion of 20 D or more (D: nominal diameter) at the upstream and downstream sides of the flow meter.
- (2) In case large amount of mist, dust, etc., are contained in the fluid, install the flow meter by vertical piping. In the case of horizontal piping, install the flow meter so that the display part faces upward.
- (3) In case installation of the product near a pressure reducing valve or a flow adjusting valve is planned, contact us in advance.