Aichi tokei denki co., ltd.

GRAPHTEC

Visualization

Controlling the load factor at compressor operation

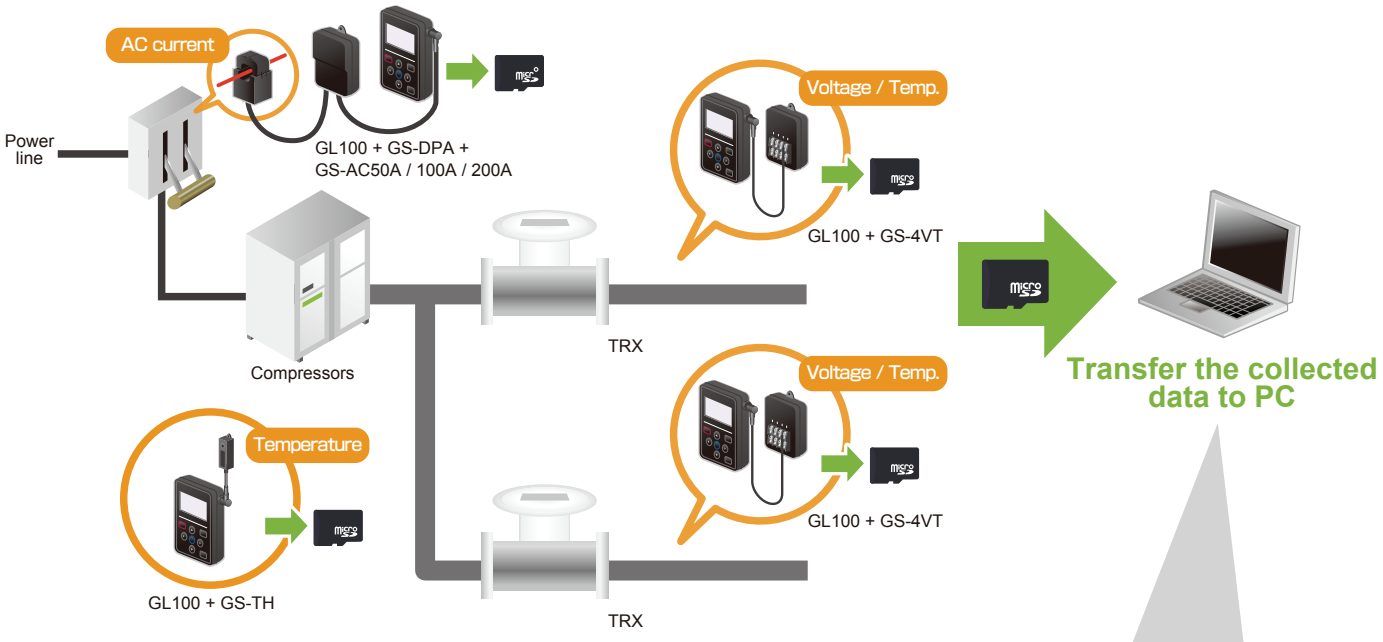
- Instant flow rate
- Accumulated flow rate
- Pressure
- Power consumption
- Temperature
- Humidity

TRX/TRZ Ultrasonic Flow Meters for Air (RS485 Output Specifications)

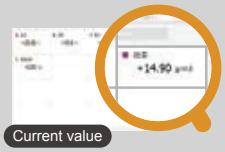
- No pressure loss and no energy loss
- It has strong oil resistance and vapor provide high durability
- Possible to measure and output of toward flow and reverse flow.

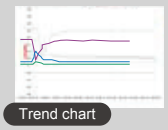
GL100 Compact data logger

- Flexible input module allows wide range of measurements
- Available the software for PC & Smart devices
- Reliable measurement with useful functions

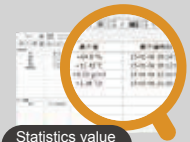


Easy analysis for improving power consumption and efficiency at compressor operation!

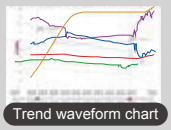

Current value


Trend chart

Check the current status with value and trend chart!


Statistics value & Alarm history


Accumulated bar chart


Trend waveform chart

Check the history with opening the file saved on the PC!

www.graphtecamerica.com/instruments

Flow Meters (Aichi tokei denki)

Specifications of TRX / TRZ			
Model		TRX□□R-0/5P	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 conversion	A flow rate corrected to the normal condition of 0°C and 1 atm.	
	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]	[Forward flow display mode]
		Accumulated flow rate: 00000000.0 (m3/h) in 9 digits	Accumulated flow rate: 0000000000 (m3/h) in 10 digits
		Trip accumulated flow rate: 0000000.0 (m3/h) in 8 digits	Trip accumulated flow rate: 000000000 (m3/h) in 9 digits
		Instantaneous flow rate: 00000.00 (L/min) in 7 digits	Instantaneous flow rate: 00000.00 (L/min) in 7 digits
		[Forward and reverse flow display mode]	[Forward and reverse flow display mode]
		Forward accumulated flow rate: 00000000.0 (m3/h) in 9 digits	Forward accumulated flow rate: 0000000000 (m3/h) in 10 digits
		Reverse accumulated flow rate: -0000000.0 (m3/h) in 8 digits	Reverse accumulated flow rate: -000000000 (m3/h) in 9 digits
		Instantaneous flow rate: 00000.00 (L/min) in 7 digits	Instantaneous flow rate: 00000.00 (L/min) in 7 digits
	Sub display	Instantaneous flow rate: 0000.0 (less than 10000 m3/h) in 5 digits; 00000 (10000 m3/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 (±0.1mA); 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.

Compact data logger (GRAPHTEC)

Specifications of GL100-N	
Item	Description
Number of channel	Up to 4 channels (varies by the type of input module used, and measurement type is fixed with each input module.)
Interface to PC	USB 2.0
Functions	• Real-time data capturing • Displays the captured data value to the LCD in real-time and save the monitoring values • Set conditions using the Menu setting
	While using USB port : • Output captured data in real-time • Output the saved data from the internal memory • Full control of the GL100 from the PC application software
Display	LCD (backlit monochrome, graphical type)
Storage device	• Built-in RAM (Approx. 4.9 MB) • micro SD memory card * Maximum file size for captured data is 1.9 GB.
Sampling interval	0.5 to 30 seconds and 1 to 60 minutes
Output signal	Alarm (1channel)
Power source	• Alkaline battery (AA x 2) • USB bus-power (micro USB connector) * The required power capacity is 5V, 1A when AC adapter for microUSB drive is used. AC adapter is not included.
Operating environment	Temperature : -10 ºC to 50 ºC Humidity : up to 80% RH (non condensed) Water resistance : IP54
External dimension	Approx. 66 x 100 x 27 mm (exclude protrusion)
Weight	Approx. 125 g

Specifications of input module	
Temperature & Humidity sensor (GS-TH)	
Type of measurement	Temperature, and Humidity Accumulated temp. (calculated value), Dew-point temp. (calculated value)
Measuring range	Temperature : -20 to 85 ºC Humidity : 0 to 100 % RH
Voltage & Thermocouple input terminal (GS-4VT)	
Number of channel	Analog voltage 4 channels, Logic or Pulse 4 channels (*3)
Measuring range	Voltage : 20mV to 50V, 1-5V FS Thermocouple: K type (-200 to 1370 ºC) & T type (-200 to 400 ºC) Logic (signal pattern) : 0 to 24 V (common ground) Pules (count) : Max. 200 counts/sampling intervall, accumulating up to 65535 counts
AC Current sensor adapter (GS-DPA-AC)	
Type of measurement	Current Power (calculated value), Electric energy (calculated value)
Application circuit	Single-phase two-wire, Single-phase three-wire system, or Three-phase three-wire
Sensor	Clamp-on current probe (optional), Two (2) sensors are able to connect
Measuring range	50, 100, 200 A RMS (varies by the sensor)

*3 : The measurement type for analog input channels can each be seperately selected but also available as set of 4 channels.

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