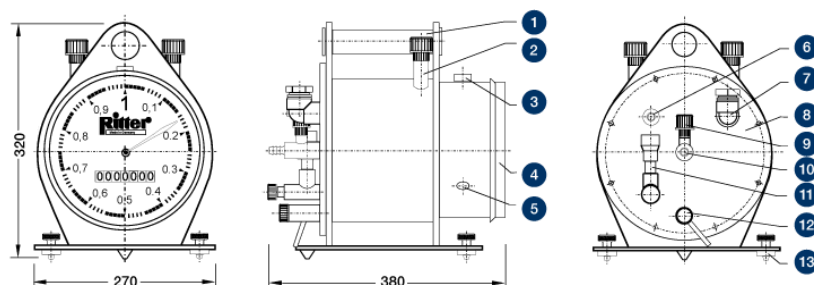


DRUM-TYPE GAS METERS TG 1 PLASTIC • DATA-SHEET



Legend

+

1. Handle
2. Support unit for:
Thermometer (gas)
Thermometer (packing liquid)
Manometer
3. Removable cover
4. Pulse generator port
5. Gas outlet
6. Filling nozzle
7. Removable rear plate
8. Manometer connection
9. Gas inlet
10. Filling level indicator
11. Drainage faucet
12. Levelling foot

Performance Data

Minimum flow $Q_{\min}$	2	ltr/h	Maximum gas inlet pressure ⁽¹⁾	50	mbar
Standard flow Q_{standard}	100	ltr/h	Minimum differential pressure ⁽²⁾	0.2	mbar
Maximum flow $Q_{\max}$	120	ltr/h	Minimum dial division	0.01	ltr
Measurement accuracy at standard flow	± 0.2	%	Maximum indication value ⁽³⁾	99,999,999	ltr
Measurement accuracy across measuring range	± 0.5	%	Connection gas in/outlet	hose barb	
Measuring drum volume	1	ltr/U	Inside-Ø hose barb		
Packing liquid quantity, approx	3	ltr	Outside-Ø hose barb	16	mm

⁽¹⁾ Standard version: 50 mbar – special versions up to 500 mbar available

⁽²⁾ Differential pressure (= pressure loss) gas inlet gas outlet

⁽³⁾ Standard Totalizing Roller Counter

Models (materials)

Model	Casing	Measuring drum	Width	Height	Depth	Weight (without packing liquid)	Max. constant use temperature
5	PVC-transparent	PVC-grey	270 mm	320 mm	380 mm	4.3 kg	40 °C
6	PP-grey	PP-grey	270 mm	320 mm	380 mm	3.1 kg	80 °C
7	PVDF	PVDF	270 mm	320 mm	380 mm	5.1 kg	80 °C
8	PE-el	PE-el	270 mm	320 mm	380 mm	3.1 kg	60 °C

Caution

Before and after measurements with **oxygen** purge the meter with an inert gas to avoid the danger of **explosion**!

For chemical resistance properties please contact your RITTER distribution partner!

Standard Equipment

- › 8-digit Totalizing Roller Counter
- › Bubble level for levelling
- › Level and Levelling Feet
- › Magnetic Coupling (between the measuring drum and counting mechanism) , for an absolutely liquid-tight casing
- › Multi-Chamber Measuring Drum
- › Supports for Thermometer and Manometer
- › Viton sealing

Built-in Options

- › Pulse Generator , standard or Ex-proof version (for connecting Electronic Display Unit/Computer)
- › LCD Display , resettable, 8-digit (replaces Totalizing Roller Counter)
- › High Precision Packing Liquid Level Indicator »HPLI« , for packing liquid level

Accessories

- › Data Acquisition Software »RIGAMO« , (for Windows)
- › Thermometer Gas (TG) , measuring range 0 °C to +60 °C
- › Thermometer Packing Liquid (TG) , measuring range 0 °C to +60 °C
- › Manometer for pressure $p_{max} \leq 50$ mbar , measuring range 0-10 / 0-20 / 0-50 mbar
- › Electronic Display Unit »EDU 32 FP« , displays volume and calculates flow rate via RS232 and analog-output in realtime (pulse generator required)

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The most recent version of this data-sheet can be found at <https://www.ritter.de/en/data-sheets/tg-1-plastic/>

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