



Legend

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

Performance Data

Minimum flow Q_{min}	2	ltr/h	Maximum gas inlet pressure	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

⁽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	4.3kg	40 °C
6	PP-grey	PP-grey	270 mm	320 mm	380 mm	3.1kg	80 °C
7	PVDF	PVDF	270 mm	320 mm	380 mm	5.1kg	80 °C
8	PE-el	PE-el	270 mm	320 mm	380 mm	3.1kg	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

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-sheet/tg-1-plastic/>

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