

Weighing Rain Gauge

WRG 204, 504, 205, 405

The next generation of rain gauges with implementation of statistic-probability model for elimination of negative influences occur in weighing rain gauges.

Weighing rain gauge is excellent tool to measure all types of precipitation within wide temperature range, harsh wind and snow conditions. Simple mechanical construction together with very sophisticated firm-ware can guarantee perfect performance.

Rain and snow precipitation gauge

Measurement

- Solid and liquid precipitation
- One minute intensity
- Total sum of precipitation
- Rain duration

Elimination of

- Wind vibration
- Particles
- Unreal step change of weightttht
- Evaporation
- Temperature fluctuation

Output signals

- Contact
- Serial RS485 / SDI 12

Options

- Air temperature measurement
- Rain detector
- Wind speed assessment
- Corrected data eliminating wind influence



**CAMPBELL
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Features

- Easy maintenance
- Evaluation and control of accuracy "in situation"
- Local and remote diagnostics
- Orifice heating included
- Direct replacement of tipping bucket rain gauge
- Heating for icing elimination included
- Fulfils all WMO recommendations



Kazakhstan, Novomarkovka

Weighing Rain Gauge

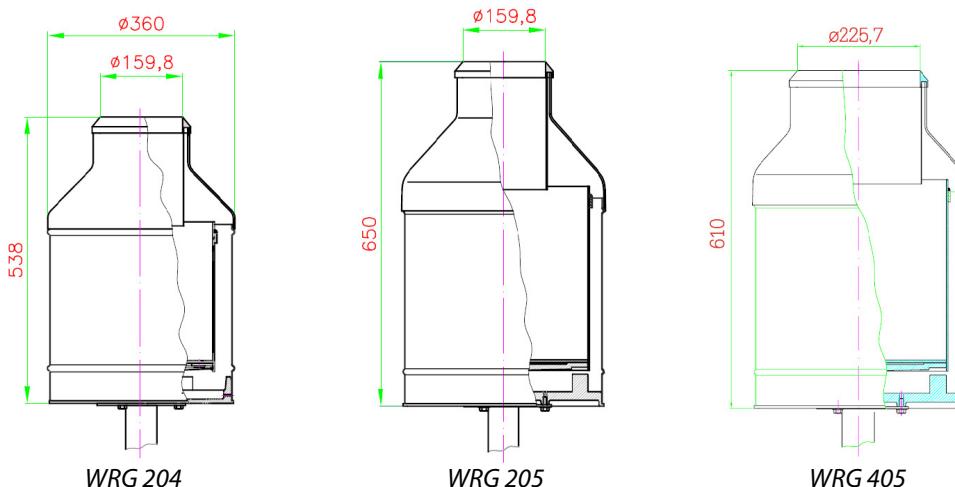
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Technical Specification

	WRG 204	WRG 504	WRG 205	WRG 405
Orifice area	200 cm ²	500 cm ²	200 cm ²	400 cm ²
Range of precipitation	750 mm	250 mm	1500 mm	750 mm
Accuracy		0.1 %		
Maximum rain intensity		120 mm / min		
Resolution		0.001 mm		
Measuring element		strain-gauge bridge		

Mechanical

Dimensions	Ø 360 x 540 mm	Ø 360 x 380 mm	Ø 385 x 650 mm	Ø 385 x 610 mm
Weight		8 kg		9.5 kg



Electrical & Interface

Power supply	8 to 24 VDC / max 15 mA
Heating supply	12 V / 1 A (option 24 V / 1A)
Output contact (1/0.1/0.01 mm)	U _{max} = 30 V, I _{max} = 300 mA
Serial output	RS485 / SDI 12

Environmental

Operating temperature range	- 40 °C to 70 °C
Operating humidity range	0 to 100 %
Degree of protection	IP65

Options

Air temperature measurement	- 40 °C to 70 °C
Wind speed estimation	Extra value
Wind correction	yes
Wind shield	yes

Sample measurement

