# MeteoRain<sup>®</sup> IoT Compact



#### AGRICULTURE

COASTAL

# HYDROLOGY

- METEOROLOGY
- INDUSTRIAL & PLC SMART CITIES & IOT

### SOLAR POWER PLANTS

WEATHER STATIONS

### Wireless Set-and-Forget Automatic Rain Gauge

Wireless MeteoRain<sup>®</sup> IoT Compact records rain rate along with the cumulative rain amount to ensure that every rain drop is counted. Designed with a self-balancing measuring mechanism with very high repeatability of measurement and accuracy even during high-rain rates. Highly resistant to soiling of the internal measuring mechanism, mechanical friction, and residual water remaining in the measuring spoon from last rain event. Additionally, MeteoRain® products offer high resistance to vibrations and non-level mounting.

#### Notable features include:

- Solar powered with 4+ months of battery life without sun
- Robust and impact resistant funnel and housing
- Strong stainless steel mount with multiple mounting options
- Simple and highly reliable measuring mechanism and electronics
- Easy to maintain and simple to clean with a removable funnel sieve/sift
- Measures rain amount, rain intensity, and sends a raingauge frost warning
- Effect of non-level mounting is minimized with this self-balancing design
- Easy adjustment and recalibration of internal measuring mechanism
- High-speed (0.13 s) self-emptying mechanism for high precipitation rate accuracy
- High-dynamic range certified up to 600 mm/hour (10 mm/minute) rain rates but can measure up to 2000 mm/hr.
- Low-profile funnel for easy cleaning with a sharp edge for accuracy
- Bird-spikes and leaf fence are available

Self-balancing, self-emptying magnetic tipping bucket technology to ensure uninterrupted measurement of precipitation regardless of amount and intensity.

It measures rain by means of a standardized orifice funnel which collects water into the precision measuring mechanism. The mechanism offers more consistent long-term response than standard tipping-bucket rain gauges and is accurate even in high rain rates.

## Individually tested and calibrated

Rain gauges are individually tested and use high quality sealed reed switches. Electronics are protected against salt spray, water, frost and heat by a weather-resistant coating.

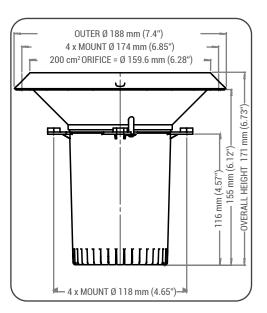
Pluviometer type	Accuracy	Stability	Resolution	Measuring range	Operating range	Starting threshold <b>*</b>	Rain orifice area		
Precipitation type:	Field performance	< 0.0125 mm	0.1, 0.2, 0.25	Up to 600 mm/hr in above	-33 °C 80 °C	Resolution	200 cm <sup>2</sup>		
Liquid (Rain)	±2% (calib. ±1%)	per year	mm (0.01")	freezing conditions	(battery limitation)	+ 0.07 mm (0.0027") *	(Ø 16.0 cm, 6.3")		
Rain gauge starting value is the amount of precipitation required to register a first reading. All funnel based rain gauges trap a small mount of precipitation on the funnel									

surface, which includes drops remaining on funnel surface (~1.4 ml), evaporation from the funnel surface, wetting of debris, dirt, and dust in the funnel catch sieve/sift and water opening (together an additional 1 ml). Rain gauge inspection interval should be determined by user experience and the environmental conditions.

<b>Electrical Interface</b>	Wireless network compatibility	Battery type	Battery life	Shock resistance
Wireless	All regions LoRaWAN and Sigfox.	Lithium Ion	10+ years	15 g

# For applications where low-maintenance in combination with high-precision and longterm measurement stability are important. ISO:9001 quality.

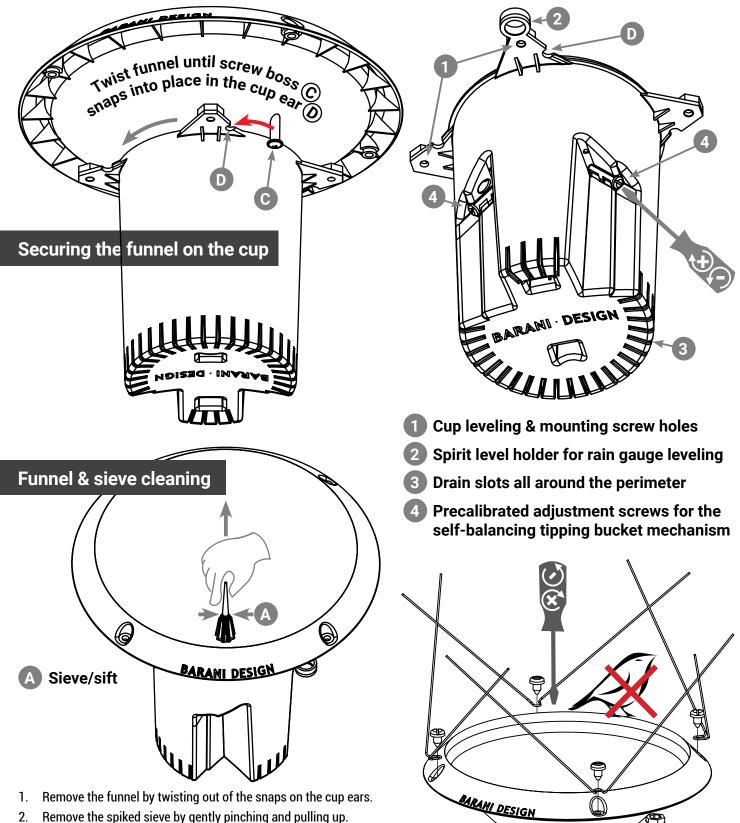




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- 3. Whipe the funnel with a moist cloth and clean the sieve.
- 4. Reinstall the funnel by twisting into the snaps on the cup ears.
- 5. Insert the sieve by pushing down until it snaps into place.

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Bird spike mounting options

Stainless steel bird spikes can be mounted on the four funnel mounting points using the supplied flat head machine screws DIN 7981 Ø 4.8 mm (3/16") or similar. The mounting holes are Ø 4 mm (5/32") in diameter.