

Precipitation Transmitter

Model Nr. 5.4032.35.007 without heater

Model Nr. 5.4032.35.008 with heater

Instruments for:
METEOROLOGY
HYDROLOGY
WATER QUALITY
AIR QUALITY
INDOOR CLIMATE
VENTILATION

KRITECH

Precipitation Transmitter

The instrument is designed to measure the height, the quantity and the intensity of the precipitation striking the surface of the earth. The measuring principle is based on the description "Guide to Meteorological Instruments No 8" of the WMO (World Meteorological Organization). The precipitation, collected by the collecting surface of 200 cm², is conducted through a inflow-sieve into a tipping-bucket. After having collected the precipitation amount of 2 cm³ = 0,1 mm of precipitation, the bucket tips over. This tipping procedure is detected by a Reed-switch, and induces an output pulse for 0,1 mm of precipitation in combination with connected electronics. As the number of tipping procedures is not linear to the precipitation intensity, an intensity-dependent linearisation is carried out in the connected electronics. The linearisation procedure is basing on a precipitation-intensity-dependent pulse-number-correction for the precipitation intensity range of approx. 0,5...7 mm/min.

Each instrument is calibrated in the intensity range 0... 7 mm/min with a precipitation quantity of 200 cm³ (=10 mm precipitation height).

The Precipitation Transmitter 5.4032.35.008 is equipped with an electronically regulated heater, and is so suitable for winter operation. All parts are corrosion-resistant. The cover is made of stainless steel (V2A).



Order-No.	Technical Data	
5.4032.35.007	Heating	no
5.4032.35.008		48,5 W / 24 V AC/DC
	Collector surface	200 cm ²
	Resolution	0,1 mm
	Precipitation intensity	max. 11 mm/min.
	Measuring principle	tipping-bucket
	Ambient temperature	-25... +60°C with heating
		0... +60°C without heating
	Mounting	onto mast tube (Ø 50mm)
	Dimensions	Ø 197 x 445 mm
	Weight	3,3 kg