



CONTINUOUS RAIN PRECIPITATION PROBE PLU-50

CONTINUOUS OUTPUT RAIN PRECIPITATION TRANSMITTER

The **PLU-50** measures rain or snow precipitation in continuous mode (without moving parts). In contrast to conventional swinging cup the **PLU-50** has no moving parts, allowing use the instrument on moving engines (offshore platforms, ships, etc.). The rain measurement is made with a hydrostatic pressure level transmitter generating a 4-20 mA 2-wire output. The enclosure is thermostatically controlled by small heaters allowing works at freezing temperatures. The precipitation of rain can be traced in real time or totalized in an instrument, datalogger or recorder.

SENSOR TYPE	High sensitivity hydrostatic level sensor
SENSOR RANGE	Range: 0 to 50 mm of continuous measurement rainfall Output: 4-20 mA 2-wire Automatic drain when it reaches limit (empty time 20 sec)
ACCURACY	0.5% to 20 °C
RESOLUTION	Measuring threshold: 0.5 mm Resolution: 0.5 mm
ELECTRICAL	Power supply: 24 Vdc by the same 2-wire signal line Enclosure: Aluminium painted - IP-65 except the inlet Outlet: IP65 gland nut. Cable Ø 5 mm min.. Connection: shielded cable 0,5 mm2
MOUNTING	Mast clamp bracket by U-bolts fit vertical to 25-50 mm (1-2 in diameter).
DIMENSIONS	Height: 50 cm (20 in) Ø 15 cm (6 in) Catchment area: 100 cm2 (60 square inches)



The rain or snow collected in the catchment funnel of **PLU-50** is accumulated into the calibrated vessel so that 1 mm of rainfall produces a 5 mm rise in the calibrated vessel. The hydrostatic column level is measured by a high sensitive pressure transmitter giving 4-20 mA proportional to level rise into the vessel.

When the column level reaches to 250 mm high (equivalent to 50 mm of precipitation), the vessel empties automatically and the process repeats. The rainfall or water evaporation in the measuring tube is negligible between emptied events

The dust or solids entrained by the rain is accumulated as sediment into a double bottom independent of the measurement zone and must be purged periodically.

Real time instantaneous rain precipitation can be tracked by a datalogger or recorder to be analyze or totalize giving a real rainfall trend.



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