

Young Precipitation Sensor

S73100 / S73100H / S73010
(P6360H / P6360 / P6361)

Order-No: S73100H (P6360H) - heatable
 S73100 (P6360) - without heating
 S73010 (P6361) - bird protection



Description

The instrument is designed to measure the height, quantity and the intensity of the precipitation striking the surface of the earth.

The YOUNG Tipping Bucket Rain Gauge meets the specifications of the World Meteorological Organization (WMO).

The design uses a proven tipping bucket mechanism for simple and effective rainfall measurement. The bucket geometry and material are specially selected for maximum water release, thereby reducing contamination and errors. Catchment area of 200 cm² and measurement resolution of 0.1 mm meet the recommendations of the WMO. Leveling screws and bullseye level are built in for easy and precise adjustment in the field. Measured precipitation is discharged through a collection tube for verification of total rainfall. Model S73100H is heated for operation in cold temperatures. An unheated version, S73100, is available for use in moderate climates. To discourage birds from perching on the funnel rim, accessory bird wire assembly may be attached to the gauge.

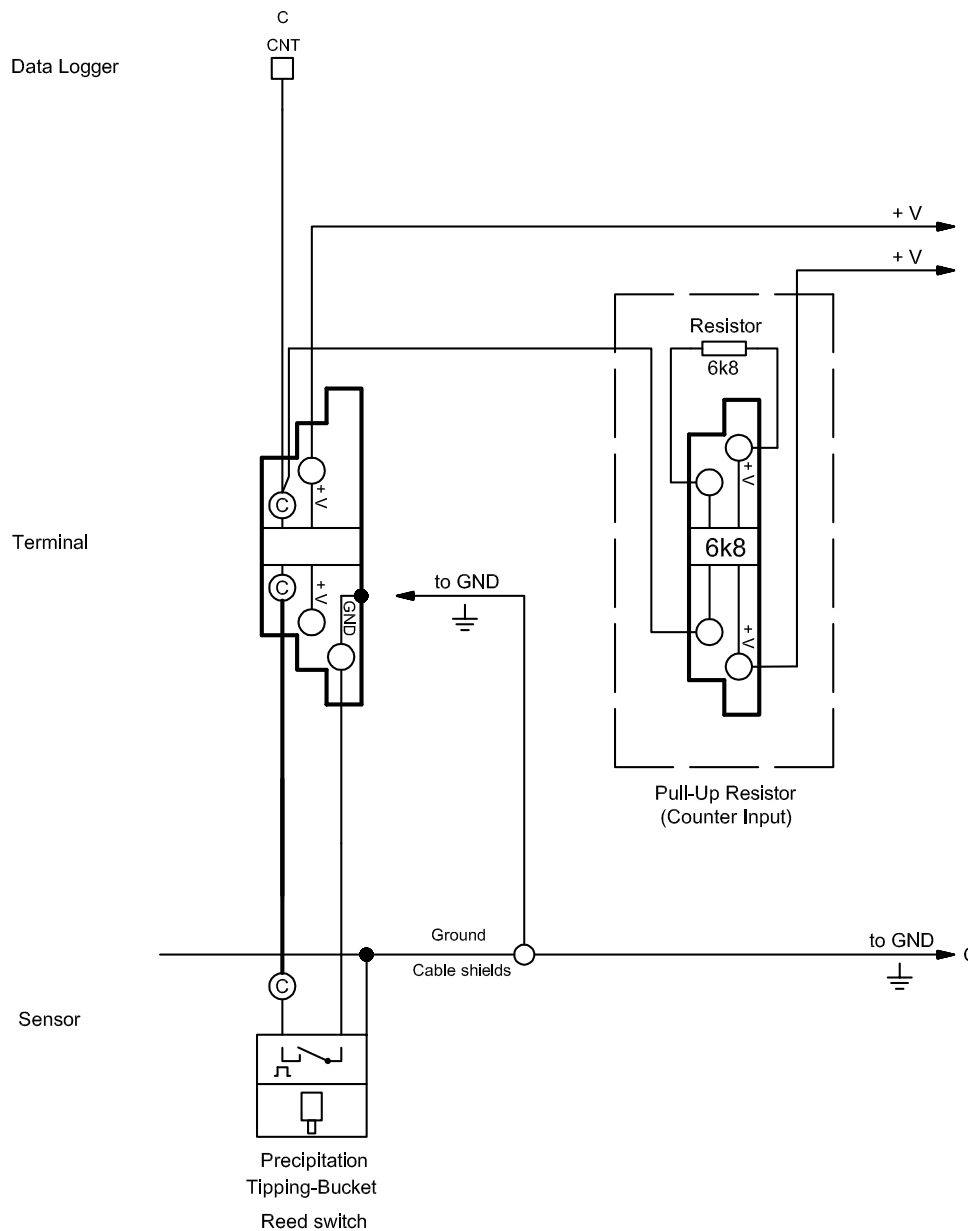
Specifications

Characteristic	Description / Value
Catchment Area:	200 cm ²
Resolution:	0.1 mm per tip
Accuracy	2 % up to 25 mm/hr
Measuring Range:	max. 11mm/min.
Measuring Principle:	tipping-bucket
Electrical Output:	Magnetic reed switch (N.O.), rating 24 VAC/DC, 500 mA
Ambient Temperature:	-20 ... +50°C (with heating)
Power:	18 W, 24 VAC for heater only
Mounting:	Clamp for 1" iron pipe (o.d. 1.24") or 3 bolts on 160 mm dia. circle
Dimensions:	Ø 180 x 300 mm (390mm with mounting base)
Manufacturer	Young
Accessories	Module M83500

Sensor Connection

Sensor	Pin No.	Wire Colour	Meteo-40
Precipitation Pulse output	A	white brown	Counter CNT, 6k8 (Switch S, 5V via 6k8 to CNT, Pull up resistor)
	B	green yellow	Main Ground

Electrical Connection Plan (Meteo-40)



Last Modification: 09 May 2012