

Data Acquisition Environment Hardware – Software – Cloud application

www.emsbrno.cz

Pulse/SDI-12 interface

Main features:

- Converts pulse input to SDI-12
- Answers with sum of pulses since the last measuring command
- Intended for tipping bucket rain gauges with reed contact
- Watertight enclosure IP 68
- Manufactured by EMS Brno



Specifications:

- SDI-12 ver. 1.3 compatible
- Three-wire M8 connector male
- Protective rating IP68
- Operating temperature -40 to 60 °C

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• Operating air humidity 0 to 100 %



Specification

Output	SDI-12 ver. 1.3
Input	Tipping bucket rain gauge – contact (maximal serial resistance 1 kOhm)
Data output	Sum of pulses since the last measur. command
Input connection (pulse)	Three wire M8 connector female
Output connection (SDI-12)	Three wire M8 connector male
Power supply voltage	5 to 16 V (permanent)
Current consumption	Approx. 30 µA
Operating environment temperature	-40 to 60 °C
Operating environment humidity	0 to 100%
Protection rating	IP68
Size (diameter x length)	22 x 130 mm (incl. connectors)
Weight	40 g

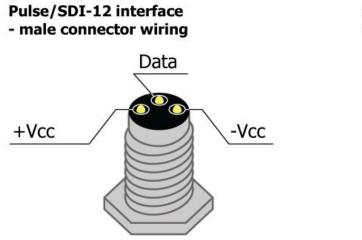
Pulse/SDI-12 interface - female connector wiring

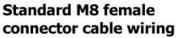


Standard M8 male connector cable wiring



Brown - Input Black - Not connected Blue - GND







Brown - +Vcc Black - Data Blue - -Vcc