

CURRENT SENSOR



aranet



- ① measures 4-20 mA current
- ② up to 7 years of battery life
- ③ IP68 casing
- ④ data transmission every 1, 2, 5, 10 minutes

battery-powered and energy-efficient solution designed to integrate with any 3rd party sensor that uses mA as an output.

Aranet 4-20mA Current sensor Datasheet

Measurements	4-20 mA current
Line of Sight Range	3km / 1.9mi
Operating environment	Indoor and Outdoor use
Transmitter power	14 dBm
Frequency	Depends on base station instructions
Measurement Range	0 - 30 mA*
Measurement accuracy	± 0.5 %
Measurement resolution	0.01 mA
Data Transmission	1, 2, 5, 10 minutes
Data Protection	Data encryption
Power options	1 AA Alkaline battery (Zn/MnO ₂) 1 AA Lithium battery (Li/FeS ₂)
Battery life @20°C / 68°F	Up to 5 years with Alkaline battery Up to 7 years with Lithium battery
Operating temperature	-20°C to 55°C / -4°F to 131°F with Alkaline battery -40°C to 60°C / -40°F to 140°F with Lithium battery
Operating humidity	0% to 100%
Dimensions	35mmØ x 120mm / 1.4"Ø x 4.7"
Weight	82g / 3.1oz with Alkaline battery (1m / 3.2ft probe) 74g / 2.8oz with Lithium battery (1m / 3.2ft probe)
Cable length	1m (3.2ft)
Construction	ASA Plastic
Protection class	IP68
Marking	CE, FCC
Compatible base stations	Aranet PRO (from v1.4.0)
Included	1 AA Alkaline battery, string
Part number	TDSPSD02 (EU), TDSPSDU2 (NA), TDSPSDR2 (RU)

* For transducers using 4-20 mA as an output, the Aranet PRO web interface user software allows customer to define conversion from detected mA values to a user defined measurement unit.