

# SD-4-20mA

*Analog Input to the Portal*

LAN/WiFi converter with industrial AI (Analog Input) for external 4-20 mA / 0-20 mA probes. External 4-20 mA probe is powered from the device.

SD-4-20mA is IoT Monitoring device, (Portal required).



SD-4-20mA is LAN/WiFi device with AI (Analog Input) for industrial probes (sensors) with 4-20 mA / 0-20 mA interface.

Analog value can be converted to digital with using 8-points calibration curve. External probe can be powered from 4-20 mA. The AI input 4-20 mA can be reconfigured to 0-20 mA.

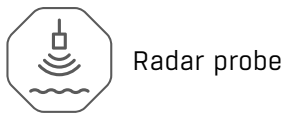
IoT Monitoring device have to be connected to the SensDesk technology based portal. Default HWg-cloud.com portal is free of charge service. Other compatible (paid) portals also available.

Portal centralizes device management, remote FW upgrades, graphs, Alerts by email, SMS or Voice-calls. Open API and PDF reports are also available.

## Typical 3<sup>rd</sup> party probes



pH probe



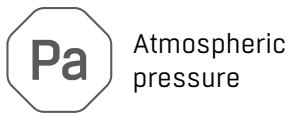
Radar probe



Pressure probe



Current



Atmospheric pressure

### Portal based services



### SensDesk Technology

- HWg-cloud.com for free
- SensDesk.com as paid service
- Several Portal providers available

### Device management

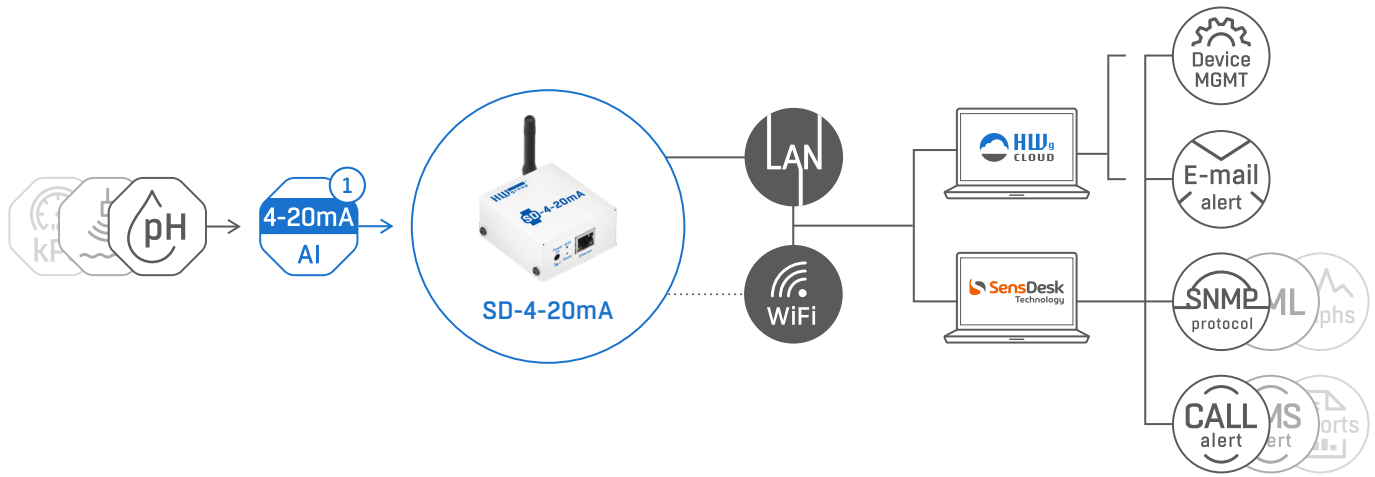
Portal provides also central device management for all devices connected to one user account.

### 4-20 mA interface

4-20 mA interface is common in the industry for use with high quality analog sensors. Power is there included in the bottom 4mA.

### 8 points calibration

Input analog signal can be converted to digital value with conversion curve defined in 8 points.



## Typical applications

- Liquid level monitoring in Diesel/Water tanks
- Portal input for special Industrial sensors
- Water pH / pressure / level probes
- Industrial applications
- Agricultural installations

## Related products



### Sensor 4-20mA 1W-UNI

Converter with isolated 4-20 mA AI (Analog Input) for external current sink probe and RJ11 output (1W-UNI).



### SD-2x1Wire Tset

Starting set for IoT Monitoring device, LAN and WiFi connectivity. Power adaptor and temperature sensor included.



### Poseidon 4002

Secure solution for remote environment monitoring and control of outputs.



### Ares 12 LTE

Industrial measuring and monitoring for 14 sensors with GSM and LTE communication and back-up power.



### NB-2x1Wire Tset subscribed

Starting set for IoT Monitoring device, NB-IoT (NarrowBand) connectivity. Power adaptor, 3-years prepaid SIM card and temperature sensor included.

## Technical specifications

External power	5V DC / 120mA / Jack Ø 3.5 × 1.35 / 10 mm
PoE support	Yes
Operating temperature	-30°C to +80°C (for the SD device)
Dimensions / weight	67×78×33 mm / 250 g
Electromagnetic radiation / EMC	CE/FCC Part 15, Class B / EN 55022, EN 55024, EN 61000

## External sensors

Analog Input	1× 4-20 mA / 0-20 mA
Analog Input Mode	Configured manually in the WEB setup, 4-20mA by default
Compatible sensors	All industrial probes with 0-20 mA or 4-20 mA interface
Analog value calibration	Yes, 8-point curve can be used
Probe distance	Max. 100 m

## Device connectivity

LAN	10/100 Mbit with PoE support (IEEE 802.3af Class 0)
WiFi	2.4 GHz
Portal	The portal is mandatory for device management & usage

## Portal Features

Default portal	HWg-cloud.com (free service)
Compatible portals	All SensDesk Technology based portals
Mobile App	HWg monitor, SensDesk Mobile
Portal alerts	Email, SMS, Voice-calls
Portal graphs	Graphs / Multi-graphs
Portal reports	PDF reports
Portal Open API	XML, SNMP