

SensMiniA4

Smart Data Logger

Mini & Compact



nanb.
NBTC



Power saving
with Solar cell



Senslink
Senslink for instant
real-time remote data acquisition

API
Application Programming Interface
AVAILABLE

KEY FEATURES

COM Port:
RS485 x 2, RS232 x1

I/O:
Analog Input x4,
Digital Output x2

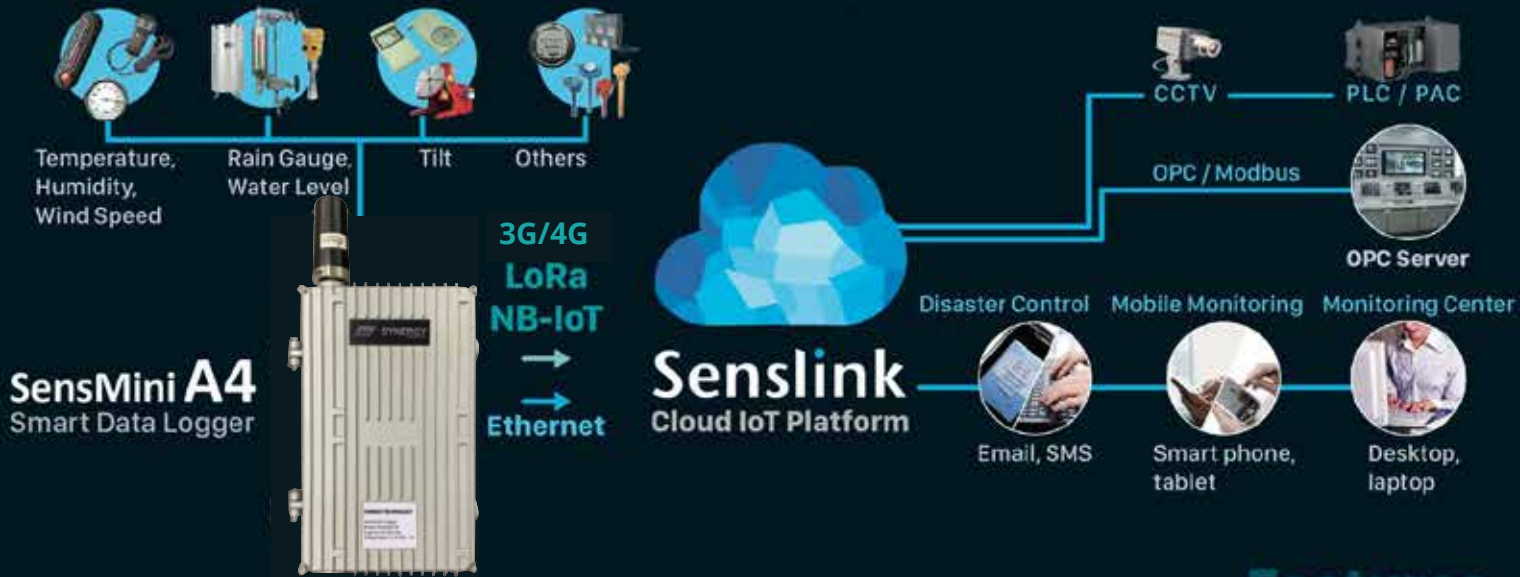
SD Card:
8 GB (Max 32 GB)

Industry grade product
Compatible with
CE and FCC certified

Support
3G/4G
NB-IoT/LoRa

Built-in battery
Charge controller
for solar cell

Examples of Data Acquisition



Features

- SD card: 8GB (32GB Max)
- Measurement storage resolution: 32bit
- Max to 32 measurements per record
- Cyclic record period: 200 years (10 measurements, every 10 min)
- Support offline downloading data from removable SD card
- Measurement data run time formula calculation settings
- Real time and historical data transmit and store
- Read time value display APP: iOS, Android
- Auto reconnect
- Push data to cloud actively
- Communication Mode: TCP Server, TCP Client, UDP Device theft detection
- GPS
- Senslink cloud data auto sync
- Deep sleep mode
- Hardware / software node dynamic mapping
- Recording interval: 1~720 min
- Auto send interval: 10~60 min

Hardware Specifications

STORAGE

SD Card 8 GB (32GB Max)

WIRED COMMUNICATION

COM3 RS232, Isolation, 115,200bps (Max)
COM1,COM2 RS485, Isolation, 115,200bps (Max). Terminal resistors included
Ethernet 10 / 100 BASE-TX, Isolation

MOBILE COMMUNICATION

Wireless modules (Dual module mode support) (Optional)

3G/4G TCP Server / Client Modes. (Fix IP is not required)
Band 1, 3, 5, 7, 8, 20, 28
LTE CAT4, Downlink 150Mb/s (Max), Uplink 50Mb/s (Max)

LoRaWAN 915 MHz ISM Band (Taiwan), AS923 (East South Asia)
11 Bytes / Packet

NB-IoT UDP Mode. Fix IP is not required
Band 8, 28
Uplink 62.5kb/s (Max)
Downlink 27.2kb/s (Max)

I/O CONNECTORS

Connectors Female 8-pins shielded M12 A-coding connector

DIGITAL OUTPUT

Num of channels 2
Types Source, Open Collector
Voltage 14.5 VDC, Max.
Current 300 mA, Max.

DIGITAL INPUT

Num of channels 2
Type Wet contact
Off Voltage Level +4 VDC Max.
On Voltage Level +10 VDC ~ 30 VDC
Isolation 2,500 Vrms

ANALOG INPUT

Channel 4-ch single-end (Voltage, Current) / 2-ch differential (Voltage)
Resolution 16-bit
Input Range -20 mA ~ 20 mA / -5 V ~ 5 V
Over voltage protection 50 V
Over current protection 100 mA
Isolation 2,500 Vrms

POWER

Connector Male: 5-pins shielded M12 A-coding connector
Voltage +12~+30 VDC
Charge current 2A Max (Solar charge system included)
Battery voltage +12 VDC
Battery type LiFePO₄, 22Ah, Life Cycle 1000 times
Power consumption 2W (transmitting), 0.001W (deep sleep)

MECHANICAL

Housing IP68, Aluminum
Size (LxWxH) 452 mm x 200.2 mm x 104.8 mm
Weight 7 Kg
Installation Wall, Rail

ENVIRONMENT

Working temperature -20°C ~ +70°C
Storage temperature -25°C ~ +75°C
Relative humidity 10 ~ 95% (non condensing)

CERTIFICATE

CE, FCC, NCC, CNS14336, IEC61000-4-5, IEC61000-4-2

EMS PROTECTION

ESD ±4 KV Contact, ±8 KV Air (I/O Pins)
Surge ±1KV (Power Pins)

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