nDAS6000

NexAIoT Data Acquisition System

Main Features

- Remote management
- Remote application
- Application domain
- Industrial protocols are required
- Real-time data and status are required
- Remote monitoring and control based on HTML5
- Rich Protocols and communications support
- Daisy-Chain Networking and RS-485
- Data Storage and Cloud Storage
- Data to cloud and Situation room
- Users can develop their own functions
- Customized OLED Menu
- Broadcast Update

Product Overview

nDAS is a data acquisition system that can be applied in green energy, energy management, remote control, HVAC & AUQA, FA, etc. , and Industrial communication requires data exchange. When you are far away from the device, you can monitor the status of the device in real time, collect data, connect data, etc. Support data storage and cloud storage, simple settings can easily connect to the cloud.

Highlight

- Can use cross-platform HTML5 web pages to allow users to monitor and operate devices remotely
- Provides common communication protocols such as REST API, TCP/IP, Modbus RTU/TCP, OPCUA, SECS/GEM Equipment, Line, WeChat, Mail, Teams, SQL Client
- TCP / RS-485 can support Modbus TCP/RTU data exchange, and support Dual-LAN, Ring and Daisy-Chain. Also having Auto-bypass protection allows any device in Daisy-Chain to continue for 48 hours after power failure, so the damage can greatly reduced.
- It can record more than 10,000 sample data locally, and also supports direct upload of data to the cloud disk Dropbox, One drive, Google drive in the available space
- Provide flexible development and condition tools such as VIC-Flow and Python, allowing users to easily develop unique functions and conditions
- Users can create their own OLED graphics in the menu, and can Quickly update settings

Common Specifications

Power

- DC 9~30V

Power consumption

- 3.5~4W

Watchdog

- Timer 1~255sec, by SW Control

Environment

- Operating temperature:

  Ambient with air flow:

  -25˚C to 70˚C

  0˚C to 50˚C (with OLED or WIFI module)
- Storage temperature: -40˚C to 85˚C
- Relative humidity: 95 %, no condensing
- EMI: class A
- ESD immunity: Contact +-5KV / Air +-9KV

Net Weight(Kgs)

- 0.4 Kg

Dimensions

- 90 mm(W) x 38.7 mm(D) x 90 mm(M)

Mounting

- DIN Rail Mount
- Wall Mount

Certifications

- CE

  -EN 61326 1

  -EN 61000 6-2

  -EN 61000 6-4

  -EN 61131 2
- FCC

nDAS6000 Series

NexAIoT Data Acquisition System

Model	Description	AI (Isolation)	DI (Isolation)	DO (Isolation)	Networking	Protocol
nDAS6000	Gateway				RS-485, Dual-LAN (DHCP/Static), Daisy-Chain, Ring, WIFI (Option)	Modbus RTU/TCP, REST API, TCP/IP, OPCUA, SNMP, SECS/GEM, MQTT, BACnet, SQL Client,
nDAS6017	8x AI (24 Bit ADC)	Voltage / Current				
nDAS6050	8DI & 8DO		Wet Contact	NPN (Sink)		
nDAS6051	16x DI		Wet Contact			
nDAS6056	16x DO			NPN (Sink)		
nDAS6030	2x RS232/422/485					
nDAS6015	8AI & 8DIO	8 Single-End or 4 Differential	8DIO 8DI / 8DO / 4DI & 4DO NPN (Sink)			
nDAS6055	16DIO		16DIO 16DI / 16DO / 8DI & 8DO PNP (Source)			
nDAS6066	4DI & 4Relay		Wet Contact	250 VAC 3A 30 VDC 3A		

Isolated Analog Input

Voltage Input Range

- **nDAS6017:** ±10V, ±5V, ±2.5V, ±1.25V, ±625 mV, ±312 mV, ±156 mV, ±78.1 mV, ±39.1 mV, ±19.5 mV
- **nDAS6015:** ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V

Current Input Range

- **nDAS6017:** ±20 mA, 0 ~ 20 mA, 4 ~ 20 mA

Resolution

- 24-bit

Accuracy

- ±0.1% of FSR (Voltage)
- ±0.2% of FSR (Current)

Isolated Digital Input

Wet Contact

- Level 0: 0~3 VDC or -3~0 VDC
- Level 1: 10~30 VDC or -30~-10 VDC

Isolated Digital Output

Voltage

- NPN: 30 V
- PNP: 12 V~30 V

Current

- NPN: 500 mA/channel
- PNP: 700 mA/channel (Max.), Total 6.4A (Max.)

nDAS6015 / nDAS6055

- DIO can be defined as all DI, all DO or DI & DO

Relay Output

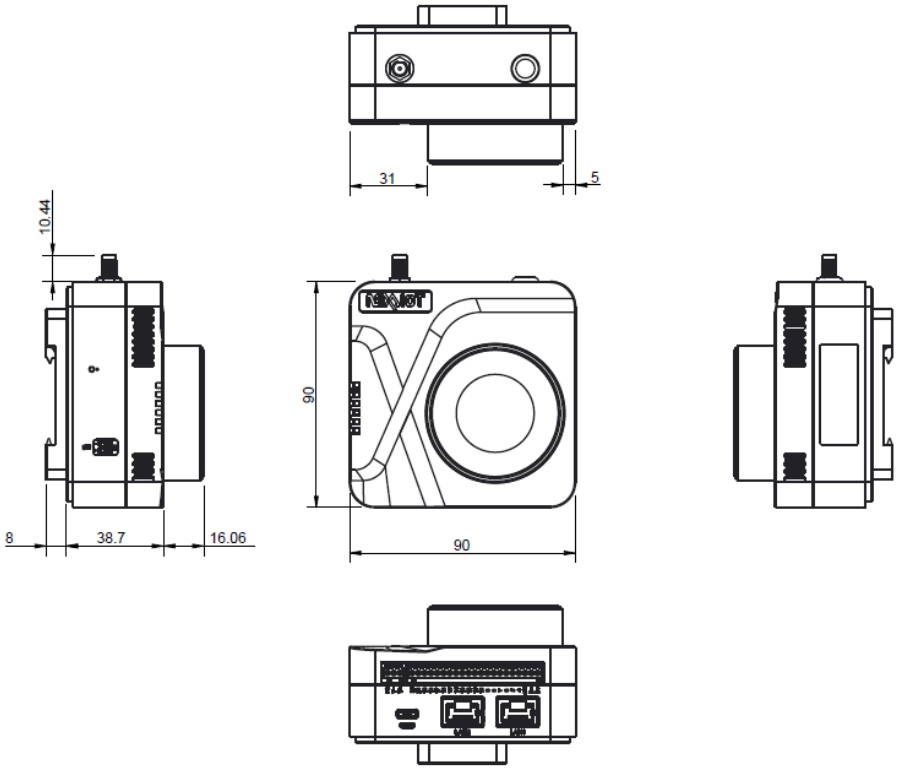
Contact Rating

- 250 VAC @ 3A
- 30 VDC @ 3A

Max. Switching

- 400 VAC
- 300 VDC

Dimension Drawing (With OLED and antenna cable)



Ordering Information

- **nDAS6000 (P/N: 10ND0600000X0)**
- **nDAS6000 with OLED (P/N: 10ND0600001X0)**
  No incl. I/O Can be used as a gateway
- **nDAS6017 (P/N: 10ND0601700X0)**
- **nDAS6017 with OLED (P/N: 10ND0601701X0)**
  8-ch Isolated Analogs Input
- **nDAS6050 (P/N: 10ND0605000X0)**
- **nDAS6050 with OLED (P/N: 10ND0605001X0)**
  8-ch Isolated Digital Input and 8-ch Isolated Digital Output
- **nDAS6051 (P/N: 10ND0605100X0)**
- **nDAS6051 with OLED (P/N: 10ND0605101X0)**
  16-ch Isolated Digital Input
- **nDAS6056 (P/N: 10ND0605600X0)**
- **nDAS6056 with OLED (P/N: 10ND0605601X0)**
  16-ch Isolated Digital Output
- **nDAS6030 (P/N: 10ND0603000X0)**
- **nDAS6030 with OLED (P/N: 10ND0603001X0)**
  2 x Isolated serial (RS232/422/485)
- **nDAS6055 (P/N: 10ND0605500X0)**
- **nDAS6055 with OLED (P/N: 10ND0605501X0)**
  16-ch Configured Digital Input and Digital Output(PNP)
- **nDAS6015 (P/N: 10ND0601500X0)**
- **nDAS6015 with OLED (P/N: 10ND0601501X0)**
  4-ch Differential/8-ch Single-end Analogs Input and 8-ch Digital Input/Output
- **nDAS6066 (P/N: TBA)**
  4-ch Relay and 4-ch Digital Input

Optional Accessories

- **nDAS Wi-Fi(P/N: 10ND0060000X0)**
  M.2 2230 Wi-Fi modules, IEEE802.11 a/b/g/n/ac.
- **nDAS OLED(P/N: 10ND0060001X0)**
  1.18-inch,128 x 128 Dots.