

Datalogger

DatumX

Brochure

xactus

Datalogger DatumX

Easy access & configuration through WiFi webserver.

Modem 3G & 4G Compatibility for communication.

Integrated alarm system & relay output.

Multiple data-availability options.

Different sensor interfaces.

Overvoltage protected.

Built-in large & diverse sensor catalog, providing near plug-n-play experience.

Powerful.

It can monitor up to **27** sensors with up to **600** internal variables.

Smart Decision Making.

It provides **analytic graphics** with real time data either locally or remotely through a built-in Webserver and 3G/4G Communications.

Flexible and Convenient.

It can measure sensors with the most common industrial interfaces, including: **RS232/RS485, Ethernet, USB, SDI12, Digital and Analog inputs.**

Great Capacity.

It stores approximately **10 million values**. With its **intelligent storage** saving functions, it allows to only stores values that were not sent to the cloud.



Data Available Always.

Multiple possible transmissions, with its different communication features from **Modbus TCP Slave, FTP transmission, to Cellular modem communications.**



Greatly Adaptable.

Competitive in some of the most important **applications**, including air quality, water quality, and meteorology.

Robust & Compact.

Its environmental protected enclosure and compact design allows a powerful and light weight device of about **780gr.**

Keeps you updated.

With its flexible and powerful **alert system**, provides advanced monitoring features as it keeps you informed about the operation status.

Specifications

CPU	
Frequency	1.5 Ghz
Cores	4
Instructions Set	Quad-Core ARM Cortex A72 (64 bits)
RAM	4Gb or 8 Gb
Operating System	Linux
Storage (O.S. + Data)	16 Gb; about 10 million values
System Characteristics	
Clock	DS3232; up to 5 years life-span
Indicators	LED and Buzzer
Operating Temperature	-35 C° to 50 °C
Variables	Up to 600, with up to 27 sensors
Configuration	Web Server
Data Availability	Modbus TCP, FTP Server, Cellular Modem
Power Requirements	
Power Supply	11.5 Vdc to 16 Vdc
Power Consumption	5 Watts (at full operation)
Sensor Interfaces	
RS232	2 ports, up to 2 sensors
RS485	1 port, up to 10 sensors
SDI12	1 port, up to 10 sensors
USB	4 ports, up to 10 ports with expansion module
Communication Protocols	Modbus RTU, Mode4, Bayern-Hessen, NMEA
Baud Rate	Up to 115200 bauds
Meteorological Station	Davis Vantage compatible port
Analogic Inputs	
Ports	2
ADC	Delta-Sigma
Resolution	16 bits
Voltage Range	0 - 2.5 Volts
Resistor	100 Ohms ±0.01%
Digital Pulse Inputs	
Ports	2
Events	7
Alarms	
Alerts	Relay, Jack 3.5 mm audio output
Relay	Solid State
Voltage Peak	±40 Volts peak, 2 Amperes RMS
WiFi	
Adapter	Built-In IEEE802.11b/g hotspot
Frequency	2.4 Ghz
Ethernet	
Protocols	IPv4, IPv6, TCP/UDP, HTTP(s), SMTP/TLS, POP3/TLS, FTP/SFTP, SSH, Telnet
Speed	10/100 Mbps
Ports	RJ-45
Miscellaneous	

User Oriented Features

After years of client's feedback, we have taken our DatumX through constant improvement. New features, including user oriented configuration tools, and flexible output files, suit for almost any possible user requirement.

Our wide sensor catalog is a creation result of our vast experience in many fields of operation, giving users a near plug-n-play experience with any sensor included on it, leading every step of sensor configuration in just minutes.



Field
Acquisition and
transmission



Remote
Access and
Visualization



Cloud Stored
Data



Different Applications

Environmental robustness for almost every ambient condition.

Our equipment has been tested in many different industries, such as environmental monitoring, water quality, minning, and so on.

Data Availability

**Communication options available:
Cellular, LoRaWAN, Satelite.**

We understand how important is data consistency. Thus, even in remote locations, there are several useful options for users to receive its data.

