

Stand alone intelligent data loggers

Robust, universal, intelligent data logger for supporting a wide range of applications

dataTaker.

Overview

The DataTaker DT82 series are intelligent data loggers, which are designed to target smaller applications. These data loggers capable of connecting to most arrays of sensors through versatile and analog and digital channels, highspeed counter inputs, phase encoder inputs and selection of SDI12 inputs (for DT82E) or serial inputs (for DT82I). They feature feedback control functions, alarm trigger, automatic data transfer and are compatible with various communication devices, making it perfect for stand-alone and remote applications.

DT82 series rugged design and wide operating temperature range will provide a reliable operation virtually in any environment. dEX software assists with logger configuration, viewing real-time data in charts, and retrieval of historical data for analysis.



Data Logging

((1)) Data readout via USB or remote data transmission via mobile network/ Wi-Fi/ Ethernet.



Connect Any Sensor

Analog: Voltage, Current, RTD, Thermocouple, Strain Gauge and Vibrating wire Digital: SDI12, MODBUS,



Notifications

Automatic alarms via SMS



Technical Support

Supporting you all the way from choosing a logger to your solution



Cloud Enabled

pulses

Access your data anywhere, anytime via DataTaker Live



Warranty

3 Years of extended warranty on all the loggers



Environmental -Monitor surface and ground water conditions, changes in atmospheric conditions to forecast weather and the presence of air pollutants..



Industrial - Monitor and control process parameters from temperature profiling to design validation.

DT82 DataTaker

Key Benefits

- Ease of deployment: On-site connectivity via USB makes it easy to configure and test the deployed monitoring module
- Universal: Connects to any sensor. This universal logger can integrate with any type of sensor. Temperature, voltage, current, 4-20 mA loops, resistance, bridges, strain gauges, frequency, digital, serial and calculated measurements can all be scaled, logged and returned in engineering units or within statistical reporting



- Robust: With its solid aluminium case this logger is suitable for harsh environments
- Cost effective: Low maintenance product. Minimal attention needed after setup

DT82E - Environmental Logger

Low end environmental logger with 2 analog inputs, designed for environmental sensors with SDI12 signal such as water level or water quality sensors.

DT82I - Industrial Logger

Low end industrial logger with 2 analog inputs, designed for industrial sensors with serial signal using ASCII or MODBUS protocol. It is possible to integrate this logger to any existing SCADA system for process control.

DT82EM – Integrated Modem Environmental Logger

An integrated modem features an access to 3G network of the logger. Utilise the DT82EM's automatic data delivery features to schedule your data to be automatically emailed to your inbox every day, week, month or other time interval.

General Specifications

 Analog input: Isolated programmable, 6 single-ended, 4 differentials, 2 (3-wire/4-wire)

Effective resolution: 18 bit

 Analog sensors: Voltage, Current, Thermocouples, RTD's, Thermistors, Monolithic Temp. Sensors, Strain Gauges, Bridge Sensors

 Analog output: Isolated programmable 16-bit DAC, 0-10 V or 0-20 mA

• Maximum sampling: 40 Hz

• Excitation output: 12 V/5 V selectable max. 150 mA

Switching: Latching Relay max. 30 VDC, 1 A

Digital sensors: Digital I/O,
 Counters (32 bit, maximum 100 kHz)

• Internet protocol : HTTP, FTP, SMTP

• Power requirement: 10...30 VDC

RTC Accuracy: 1 min/year (0...+40°C)
 4 min/year (-40...+70°C)

 Operating temperature: -40...+70°C, 85% RH non-condensing

Storage: 128 MB CF (upgradeable to 4GB),

8 GB USB flash drive (optional)

Environmental Logger (DT82E)

· Communication ports: RJ45, RS232 (Host)

 Communication protocol: SDI12, MODBUS RTU (Slave), MODBUS TCP/IP

Integrated Modem Environmental Logger (DT82EM)

Communication ports: RJ45

 Communication protocol: SDI12, MODBUS TCP/IP

SIM interface: SIM Socket (1.8 V/3 V)

Data transfer: Email or FTP
 Industrial Logger (DT82I)
 Internal battery: 6V @ 1.2 Ah

Communication ports: RJ45, RS232 (Host),

RS232/RS485/RS422

 Communication protocol: MODBUS RTU (Master/Slave), SDI12, MODBUS TCP/IP, ASCII

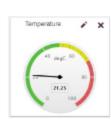
dEX 2.0 (Logger Software)

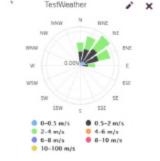
A software with intuitive graphical interface for programming DataTaker that allows you to configure, view real-time data in widgets or charts and retrieve your historical data for analysis.



After installation you can run dEX 2.0 and establish connection with your logger through TCP/IP connection either using Ethernet or USB ports. The software is available cross platform and will work on major operating system such as Windows, iOS and Linux.

Utilising Angular JS which allows one page application for simplicity, this dEX 2.0 draws a new approach on programming and viewing data like never been before.

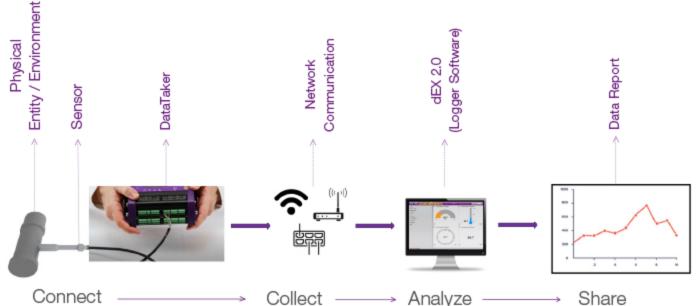




Features:

- · Compatible to previous dEX program
- Improved UI design with single centralise page which is easier to move between functions.
- · Offline configuration (program template creation)
- · Improved programming approach on schedule / channel creation
- · Re-defining alarm declaration
- · Re-defining MODBUS and SDI12 channels creation
- · Home functions that target multiple loggers





Technical Specifications

Table 1 Technical specifications

Comparison Table for Dataloggers			
Feature	DT82E	DT82I	DT82EM
Analog input channels	2	2	2
Analog output channels	✓	/	/
Digital I/O channels (open-drain outputs)	3	4	3
Digital I/O channels (logic outputs / SDI-12)	1	-	1
Relay output-1 latching relay	4	✓	✓
High speed counter inputs	4	4	4
Phase encoder inputs	-	2	-
RS232/422/485 communications port	-	✓	-
RS232 host port	✓	✓	-
Ethernet port	✓	✓	✓
USB memory device port	✓	✓	/
Switched isolated 5/12 V power output	✓	✓	/
Battery charger for internal/external battery	-	✓	-
Internal battery (capacity in Ah)	-	1.2	-
Modbus master function	-	✓	-
Modbus slave (TCP/IP)	✓	✓	/
LCD display & keypad	✓	✓	✓
Status LEDs	4	4	4
Integrated modem	-	-	/

Quality Statement: DataTaker operates a quality management system complying with ISO 9001:2008. It is DataTaker's policy to supply customers with products which are fit for their intended purpose, safe in use, perform reliably to published specification and are backed by a fast and efficient customer support service.

Trademarks: DataTaker is a registered trademark.

Specifications: DataTaker reserves the right to change product specifications at any time without notice.



DataTaker DT82 Series 4 Range			
Dataloggers	Channels	Product Code	
DataTaker DT82E Series 4	2-6 Analog, 8 digital channels	DT4DT82E, *DT4DT82E-AL	
DataTaker DT82l Series 4	2-6 Analog, 8 digital channels	DT4DT82I, *DT4DT82I-AL	
DataTaker DT82EM Series 4	2-6 Analog, 8 digital channels	DT4DT82EM, *DT4DT82EM-AL	

Accessories included in data logger: DataTaker resource thump drive, AC adaptor, screwdriver & USB cable

*DT4DT82E-AL, *DT4DT82I-AL, *DT4DT82EM-AL products are excluded from the above stated standard accessories.



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