

AGM Electronics, Inc
Product Documentation
Description and Theory of Operation

DTO SPM9000

Data Handler

A universal device that conditions and logs remote single point analog and digital signals. It also communicates the signals to other locations, operates/controls field devices and interfaces with existing or new peripherals.

Theory of Operation and Construction

The heart of the Data Handler is an industrial hardened micro-controller.

Analog inputs are conditioned and optically isolated. The micro-controller digitizes the analog signals and processes and logs the data in engineering units.

Built-in configuration menu simplifies field setup and changes.

The factory at no additional charge will add customized control algorithms. The algorithms are constructed using Ladder Logic.

For ease on installation and maintenance, "plug & play" connectors are used for field wiring connections.

The hermetically sealed assembly minimizes installation costs.

General Specifications

Ports - RS232C or optional RS485

Baud Rate - Up to 19200

Inputs - 1 Analog (AC/DC/R/Pulse/TC), 2 Dry Contacts

Analog Resolution - 13 bits

Outputs - 1 Analog, 4/20 mADC, 2 dry contacts

Storage - 32K bytes, non-volatile, date/time stamped, event/interval driven

Clock - Yes

Program - 32K bytes

Protocols - ASCII, Modbus(ASCII/Binary), AB-DF1 slave

Connections - AGM Data Handler(s)/Integrated Control Station(s), Dial-up/Cell phone system, PC, fixed frequency/spread spectrum radio modem

Operating Temperature Range, -20/80 deg C

Adjustments - Operator configurable locally or remotely by modem from a PC

Power - 9/26 vdc +/- 10%, nominal 300 milliWatts

Physical - 3 X 2.5 inches

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