

Model 3516 Data Collection Platform

- Compatible with HSE Serial Transmitter for ALERT Transmissions
- SDI-12 Master Mode
- Interface with GOES and METEOSAT



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BENEFITS:

- Retrieve your data using the simple menu driven user interface.
- View current data values by means of the external button.
- Take advantage of the low standby power, 4 analog inputs, SDI-12 mode, event counter input, frequency input, and scalable 4-20 mA output.
- Use in a variety of applications including irrigation, mining, aquaculture, surface/ground/waste/storm water, industrial control, and meteorology.

DESCRIPTION:

The Model 3516-00 is a High Precision Data Collection Platform designed for hydrologic and meteorological data logging and telemetry applications. The built-in keypad and display can be used for complete system configuration and to view measured values in the field. The Model 3516-00 can be used simply as an onsite data logger or can be configured for a variety of telemetry options including *GOES, *METEOSAT, and ALERT (Automated Local Evaluation in Real Time).

The 4 MB internal non-volatile FLASH memory is expandable. Data can be retrieved using standard PCMCIA memory cards.

The Data Collection Platform has four analog inputs, a frequency input, a counter input, a quadrature type shaft encoder input, two Digital I/O and SDI-12, and three RS-232 Communication Ports. The four analog inputs have a resolution of 16-bits.

*Consult your local sales representative for satellite communication options.

02-3516-00(B)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: sales@highsierraelectronics.com

Model 3516 Data Collection Platform

SPECIFICATIONS:

Analog Inputs

Channels	4 single ended, 1 differential
Accuracy	$\pm 0.2\%$ FS
Resolution	24-Bit
Range	0 to 5 V (all channels) 0 to 500 mV (additional on channel 1)

5.0 Volt Excitation

Accuracy	± 5 mV overload and temperature range
Current	10 mA (max load)

Switched 12 Volt Excitation

Type	Unregulated based on battery voltage
Current	2.5 Amps

Frequency Input

Range	1 to 10 KHz at ± 75 mV PP or greater 1 to 15 KHz at ± 1 Volt PP or greater
Amplitude	± 5.0 Max
Accuracy	$\pm 0.1\%$

Counter Input

Type	Switch closure or voltage pulse
Voltage Input	0 to 5 Volts
Frequency Input	100 Hz (max)

Digital I/O

Channels	2, Independently configured for input or output
Input Levels	0.0 to 5 V, high = 3.5 V or higher, low = 0.8 V or less
Output Levels	High = 3.5 V min sourcing 5 mA Low = 0.4 V max sinking 5 mA

4-20 mA Output

Accuracy	$\pm 0.5\%$ FSO
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SDI-12 (Supports both master and remote modes)

Connector	3-pin connector
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RS-232

Type	3 RS-232 communication ports
Connector	9-pin D connector, female
Baud Rate	Programmable

Memory 256 MB, non volatile FLASH

Operating Voltage 10 to 16 Volts

Current Draw Standby: 5 mA max

Operating Temperature -40° to 140° F (-40° to 60° C)

Storage Temperature -40° to 176° F (-40° to 80° C)

Dimensions 7 x 8.5 x 4.3 in (18 x 22 x 11 cm) (L x W x H)

Shipping Weight 4.25 lbs (2 kg)

Warranty 2 years manufacturer's warranty

ORDERING GUIDE:

Model 3516-00. Data Collection Platform

See www.highsierraelectronics.com for more specification and ordering information.