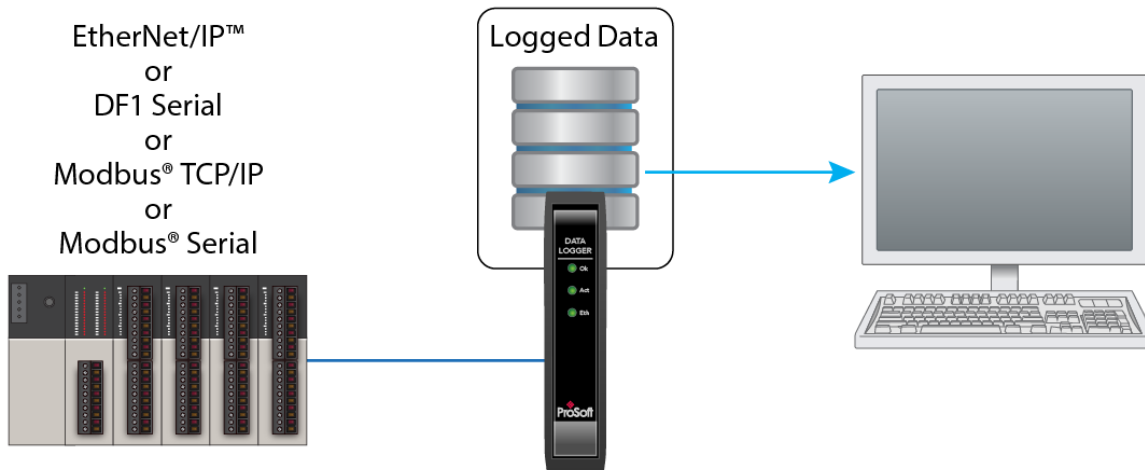# DATASHEET

Data Logger
PLX51-DL-232

What if you could have your control devices' data stored for predictive maintenance or process improvements?

The PLX51-DL-232 Data Logger is ideal for remote sites with limited communications that need to log data. OEMs can log their machine's data to identify operational problems or efficiency improvements. The PLX51-DL-232 can read and store data from EtherNet/IP PLCs, DF1 Serial PLCs and devices, or Modbus® PLCs and devices. The PLX51-DL-232 has the capacity to store over 16 million records in its solid-state non-volatile memory. Each stored record includes a Date Time stamp, Tag Name, Data Type, and Value.

EtherNet/IP™
or
DF1 Serial
or
Modbus® TCP/IP
or
Modbus® Serial

Logged Data

Features

♦ Data can be manually downloaded to a CSV file using the PLX50 Configuration Utility

♦ A built-in webserver provides detailed diagnostics of system configuration and operation

♦ Two logging modes: Data stored until memory is full or oldest data overwritten when memory full, first in, last out

Specifications

EtherNet/IP	Description
Connector	RJ45
Conductors	CAT5 STP/UTP
ARP Connections	Max 20
TCP Connections	Max 20
CIP Connections	Max 10
Communication Rate	10/100 Mbps
Duplex Mode	Full / Half
Auto MDIX	Yes

Serial Port	
Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Parity	None, Even, Odd
Data Bits	8
Stop Bits	1
RS232 Connector	4-way terminal
RS232 Conductor	24 to 18 AWG
RS232 Isolation Voltage	2.5 kV

DF1	Description
Protocol	DF1 Full Duplex, DF1 Half Duplex
Error Detection	CRC, BCC
Embedded Response	Auto, On

Modbus	Description
Protocol	Modbus RTU, Modbus TCP/IP
Function Codes Supported	1: Read Coils 2: Read Discrete Inputs 3: Read Holding Registers 4: Read Input Registers

Data Logging	Description
Max Record Count	16,777,216
Max Tag Count	200
Log Criteria Supported	Delta Change, Heartbeat, Tag Triggers
Min Log Interval	50 ms
Data Types Supported	BOOL, SINT, INT, DINT REAL
Cached Records (Non-Volatile)	Yes
Log Triggers Supported	Yes
Data Sources	Logix Tags, DF1 File, Modbus (RTU and TCP/IP)

Hardware Specifications

Specification	Description
Enclosure	Plastic
Enclosure Rating	IP20, NEMA/UL Open Type
Dimensions (H x W x D)	101.0 x 22.5 x 120.0 mm
Power Requirements	Input: 10 to 28 VDC, (70 mA @ 24 VDC / 130 mA @ 10 VDC)
Power Consumption	1.7 W
Power Connector	3-way terminal
Conductors	24 to 18 AWG
Enclosure Rating	IP20, NEMA / UL Open Type
Temperature	-20°C to 70°C
Earth Connection	Yes, terminal based
Emissions	IEC61000-6-4
ESD Immunity	EN 61000-4-2
Radiated RF Immunity	IEC 61000-4-3
EFT/B Immunity	EFT: IEC 61000-4-4
Surge Immunity	Surge: IEC 61000-4-5
Conducted RF Immunity	IEC 61000-4-6

Regulatory Approvals

Agency
ATEX: Zone 2 Cat 3
UL/cUL Class 1 Div 2
RoHS2
Regulatory
CB Safety
CE