

Single / Dual Channel Data Logger

ScanLog 96

Universal Single / Dual Channels
21 CFR Part 11 Compliant PC Interface
CSV Formatted Pen-Drive Interface
Built-in Huge Record Storage Capacity

Process Precision Instruments

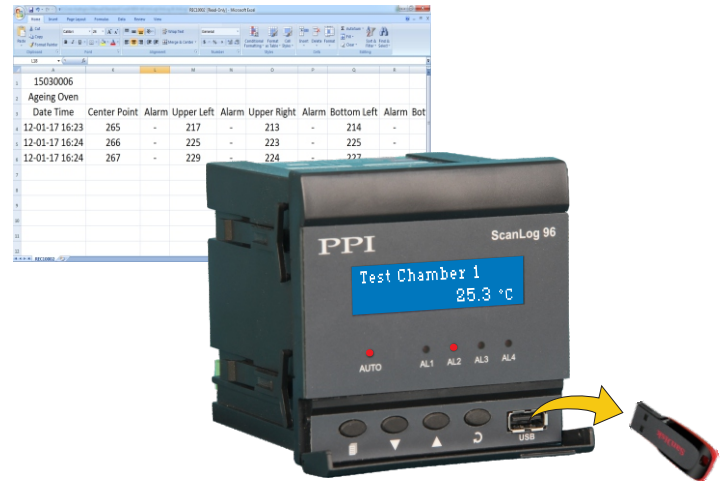
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PC Interface 21 CFR Part 11 Compliant Software



Pen-Drive Interface CSV Formatted Records



Salient Features

- 2 Rows of 16 Characters LCD Display & 4 Tactile Keys
- Single / Dual Universal Analog Channels
- Independent Jumper-less Input Type Selection : Thermocouples, RTD Pt100, mV, V, mA
- Fast Channel Update Rate : 250 mS per Channel
- 4 Programmable Soft Alarms per Channel
- 2 Common Relay Outputs for Alarms
- Optional, 5V or 24V DC Excitation Voltage Output
- User Assigned Channel Names for Easy PV Identification
- Huge Data Storage Capacity : Appx. 38,56,000 Records
- Date / Time Stamped Process Value (PV) & Alarm Status Recording with Programmable Recording Interval
- Event Generated Records : Power-up, Alarm Toggle, RTC / Recording Interval Changed
- Continuous or Batch Recording
- Free 21 CFR Part 11 Compliant Software with PC Interface Version
- Easy Data Transfer to PC in Excel Format for Pen-Drive Interface Version
- Supply Voltage : 85 to 264 VAC, 50/60 Hz
- Size (mm) : 96 (H) X 96 (W) X 106 (D)

General Information

Product Type	Universal Single / Dual Channel Composite Data Logger with PC / Pen-Drive Interface
Quantity	1 Unit
Accessories	(Optional) USB to RS485 Converter
Similar Products	ScanLog 4C ScanLog 8C ScanLog 16C UniLog Ultra UniLog Plus UniLog Pro Plus



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Operator Interface

Display	2 Rows of 16 Characters LCD Display with Back-Light LED
Keys	4 Tactile Switches PAGE, DOWN, UP, ENTER / Alarm ACK

Channel Specifications

Number of Channels	Single / Dual
Input Types	Thermocouples : J, K, T, R, S, B, N RTD : Pt100, 3-Wire DC mV : 0 to 80 mV DC Volts : 0 to 1.25V, 0 to 5V, 1 to 5V, 0 to 10V DC mA : 0-20 mA, 4-20 mA
Accuracy	Thermocouples Measurement : $\pm 0.25\%$ of Measured Value ± 1 LSD (Excluding CJC Error) Cold Junction : $\pm 2.5^\circ\text{C}$ (Specified over 18 to 37°C Ambient) RTD Pt100 $\pm 0.25\%$ of Measured Value ± 1 LSD (Lead-Resistance compensated up to 5Ω in each Lead) DC mA / mV / V $\pm 0.20\%$ of Measured Value ± 1 LSD
Resolution (Settable)	Thermocouples & RTD : 0.1 / 1 (°C / °F) DC Linear Volts / Current : 0.001 / 0.01 / 0.1 / 1 (Counts)
Range	Thermocouple & RTD Pt100 : Refer Table-1 DC Volts / Current : Programmable within -30000 to +30000 Counts
Zero Offset	User Adjustable over Full Range for Each Channel
ADC	16 Bit ($\pm 32,768$ Counts), Sigma-Delta ($\Sigma\Delta$)
Channel Update Time	250mS for Single Channel 500mS for Dual Channel
Input Impedence	Greater than 8 MΩ for RTD, Thermocouples & 0 to 80 mV Input 200 KΩ for 0-1.25 V, 0-5 V, 0-10 V, 1-5 V Input 3.9Ω Precision Shunt Resistor for 0-20 mA & 4-20 mA Input
Signal Conditioning	Analog Filter : First Order Low-Pass RC Filter. Cutoff Frequency at 55Hz (3dB at 55Hz with roll-off rate of 20dB/decade) Digital Filter : Programmable Between 0.5 to 60.0 Seconds
Input Protection	ESD : 8KV EFT : 2KV Surge : 1KV

Alarms

Numbers	4, Independent for Each Channel
Programmable Parameters	Type : Process Low, Process High Logic : Normal, Reverse Hysteresis : 1 to 3000 Unit Counts Inhibit : No, Yes
Outputs (Optional)	Relay Change-over Contacts Relay-1 : Common for Alarm-1 & Alarm-3 of All Channels Relay-2 : Common for Alarm-2 & Alarm-4 of All Channels

Single / Dual Channel Data Logger

Outputs

Relay	Contact Type : Potential-free Change-over Contacts Contact Rating : 5A @ 250 VAC / 30 VDC (Resistive Load)
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Data Logging

Storage Capacity	2 GB Flash Memory (Approx. 38,56,000 Records)
Recording Mode	Continuous, Batch
Recording Interval	Programmable from 00 : 00 : 01 to 02 : 30 : 00 (Hour : Minutes : Seconds)

Power Supply

Type	Switch Mode (SMPS)
Line Voltage	85 to 264 VAC, 50/60Hz
Consumption	6VA Max

Physical

Mounting	Plug-in with Panel Mounting Clamps
Overall Dimensions	96 (H) X 96 (W) X 106 (D), mm
Panel Cutout	92 (H) X 92 (W), mm
Terminals	Pluggable Terminal Blocks
Weight	400 Grams, Max.

Environmental

Operating Ambient	0 to 55°C & 5 to 90%RH Non-condensing
Storage Temperature	-10 to +70°C
Atmospheres	Not Suitable for use in Corrosive or Explosive Atmospheres. The Panel in which the Instrument is Mounted must be free of Electrically Conductive Pollution.

PC Interface

Device Serial Port	Port : RS485, 2-wire, Half Duplex, Start-Stop Synchronized
	Slave ID : 1 to 127
	Max. Units per Loop : 31
	Max. Distance : 1200 Meters

Pen-Drive Interface

Pen-Drive Support	USB 2.0, Format : FAT, Socket : Type A
File Operation	Read <i>Set.txt</i> file Write <i>.csv</i> files (Data Records)

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PC Software (USFDA 21 CFR Part 11 Compliant)

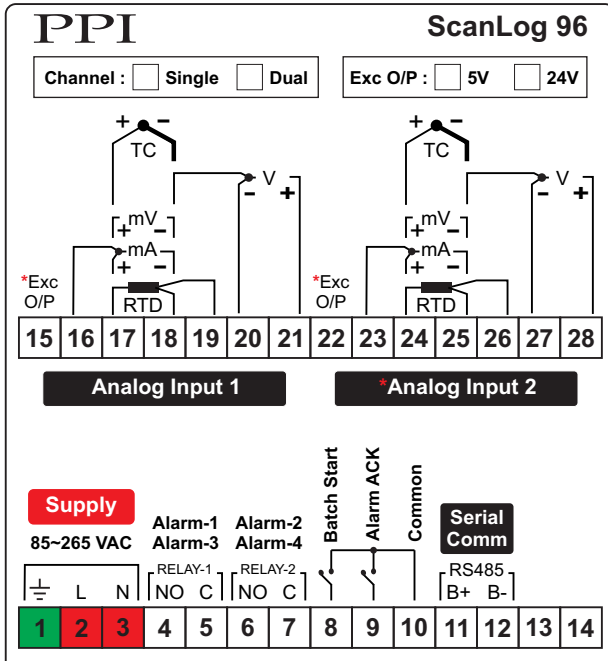
Supported Operating Systems (OS)	<ul style="list-style-type: none"> • Windows Vista • 32 bit / 64 bit Windows 8 & Above 	<ul style="list-style-type: none"> • Windows 7
Minimum PC Configuration Requirements	<ul style="list-style-type: none"> • 2.8 GHz Clock Speed • 32 bit / 64 bit Pentium Dual Core 	<ul style="list-style-type: none"> • 40 GB Hard Disk • 2 GB RAM
Features	<ul style="list-style-type: none"> • Supports Multiple Data Logger on Single Installation • Auto Start-up on PC Power-up • Online Display of Process Values & Stored Records in Graphical & Tabular Forms with Alarm Indications • SMS and/or Email Alerts on Alarm Conditions • Process Value Min / Max Average Computation • Automatic Periodic Downloading of Records Stored in Data Logger • Access Control According to Authority Level • User Actions with Signing & Authorization • Automatic Password Expiry • Manual & Auto Back-up Facility with Archiving • Data Log Reports with User Configurable Title, Footer & Header • Data Log Report, Alarm Log Report, History Graph & Audit Trail Report in PDF & EXCEL formats • Audit Trail History of Critical Events & User Actions 	

TABLE 1

Input Type	Range (Min. to Max.)
2 / 3-wire, RTD Pt100	-199 to +600 °C / -328 to +1112 °F or -199.9 to +600.0 °C / -328.0 to +1112.0 °F
Type J Thermocouple (Fe-K)	0.0 to +960.0°C / +32.0 to +1760.0°F
Type K Thermocouple (Cr-Al)	-200.0 to +1376.0°C / -328.0 to +2508.0°F
Type T Thermocouple (Cu-Con)	-200.0 to +387.0°C / -328.0 to +728.0°F
Type R Thermocouple (Pt / Pt-Rh13%)	0.0 to +1771.0°C / +32.0 to +3219.0°F
Type S Thermocouple (Pt / Pt-Rh10%)	0.0 to +1768.0°C / +32.0 to +3214.0°F
Type B Thermocouple (Pt-Rh6% / Pt-Rh30%)	0.0 to +1826.0°C / +32.0 to +3218.0°F
Type N Thermocouple (NiCrSi / NiSi)	0.0 to +1314.0°C / +32.0 to +2397.0°F

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Back Panel Termination



***Notes:**

1. Analog Input 2 connections (terminals 23 to 28) are applicable only for Dual Channel version.
2. Excitation Voltage output (terminals 15 & 22) is available optionally.
3. Serial Communication Port (terminals 11 & 12) is available for PC Interface version only.

Ordering Code

Channels		Interface		Excitation Voltage	
S	Single	PD	Pen-Drive	N	None
D	Dual	PC	Personal Computer	5	5 VDC @ 15 mA
				24	24 VDC @ 40 mA

Example Code **S - PD - 24**
 Single Channel, Pen-Drive Interface, 24 VDC @ 40 mA Excitation Voltage

Process Precision Instruments (An ISO 9001 : 2008 Company)

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