

# ScanLog 96 Pen Drive Version

Single / Dual Channels  
 Universal Process Data Logger  
 with USB Port for Data Transfer to PC via Pen Drive

# Operation Manual

This brief manual is primarily meant for quick reference to wiring connections and parameter searching. For more details on operation and application; please log on to [www.ppiindia.net](http://www.ppiindia.net)



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OPERATOR PARAMETERS	
Parameters	Settings
Stop Copy	No Yes
Select Option	1. None 2. Copy (New) 3. Re-copy (Old) 4. Read Chan Names 5. Recover (Default : None)
Batch Start	No Yes
Batch Stop	No Yes

ALARM SETTINGS	
Parameters	Settings (Default Value)
Select Channel <i>(Available only for Dual Channel Version)</i>	1 or 2
Select Alarm	AL1, AL2, AL3, AL4 (The actual available options depends on the numbers of Alarms set per channel on Alarm configuration page)
ALx Type <i>x = 1, 2, 3 or 4</i>	None Process Low Process High (Default : None)
ALx Setpoint <i>x = 1, 2, 3 or 4</i>	Min. to Max. of selected input type range (Default : 0)
ALx Hysteresis <i>x = 1, 2, 3 or 4</i>	1 to 30000 (Default : 20)
ALx Inhibit <i>x = 1, 2, 3 or 4</i>	No Yes (Default : No)

DEVICE CONFIGURATION	
Parameters	Settings (Default Value)
Scan Rate	1 Sec. to 99 Sec. (Default : 3 Sec.)
Delete Records	No Yes (Default : No)

CHANNEL CONFIGURATION	
Parameters	Settings (Default Value)
Select Channel <i>(This parameter is available for Dual Channel Version only)</i>	1 or 2
Input Type	Refer Table 1 (Default : 0 to 10 V)
Resolution	Refer Table 1

Parameters	Settings (Default Value)			
Units	Refer Table 2 (Default : °C)			
Signal Low	Input Type	Settings	Default	
	0 to 20mA	0.00 to Signal High	0.00	
	4 to 20mA	4.00 to Signal High	4.00	
	0 to 80mV	0.00 to Signal High	0.00	
	0 to 1.25V	0.000 to Signal High	0.000	
	0 to 5V	0.000 to Signal High	0.000	
	0 to 10V	0.00 to Signal High	0.00	
	1 to 5V	1.000 to Signal High	1.000	
	Signal High	Input Type	Settings	Default
		0 to 20mA	Signal Low to 20.00	20.00
4 to 20mA		Signal Low to 20.00	20.00	
0 to 80mV		Signal Low to 80.00	80.00	
0 to 1.25V		Signal Low to 1.250	1.250	
0 to 5V		Signal Low to 5.000	5.000	
0 to 10V		Signal Low to 10.00	10.00	
1 to 5V		Signal Low to 5.000	5.000	
Range Low		-30000 to +30000 (Default : 0.0)		
Range High		-30000 to +30000 (Default : 1000)		
Low Clipping	Disable Enable (Default : Disable)			
Low Clip Val	-30000 to High Clip Val (Default : 0)			
High Clipping	Disable Enable (Default : Disable)			
High Clip Val	Low Clip Val to 30000 (Default : 1000)			
Zero Offset	-30000 to +30000 (Default : 0)			

ALARM CONFIGURATION	
Parameters	Settings (Default Value)
Alarms/Chan	1 to 4 (Default : 4)
Relay-1 Logic	Normal
Relay-2 Logic	Reverse (Default : Normal)

RECORDER CONFIGURATION	
Parameters	Settings (Default Value)
Normal Interval	0:00:00 (H:MM:SS) to 2:30:00 (H:MM:SS) (Default : 0:00:30)
Zoom Interval	0:00:00 (H:MM:SS) to 2:30:00 (H:MM:SS) (Default : 0:00:10)
Alarm Toggle Rec	Disable Enable (Default : Enable)
Recording Mode	Continuous Batch (Default : Continuous)
Batch Time	0:01 (HH:MM) to 250:00 (HHH:MM) (Default : 1:00)
Batch Start	No
Batch Stop	Yes

RTC SETTING	
Parameters	Settings
Time (HH:MM)	0.0 to 23:59
Date	1 to 31
Month	1 to 12
Year	2000 to 2099
Unique Id Number	Read Only

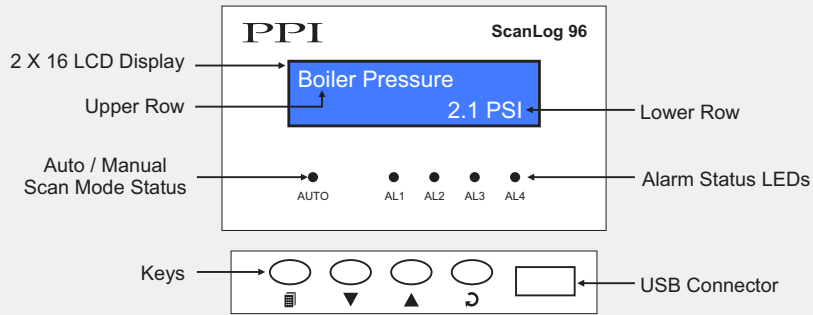
UTILITIES	
Parameters	Settings (Default Value)
Lock	No
Unlock	Yes (Default : No)
Factory Default	No Yes (Default : No)

TABLE - 1		
Option	Range (Min. to Max.)	Resolution & Unit
Type J (Fe-K)	0.0 to +960.0°C / +32.0 to +1760.0°F	1°C /°F or 0.1°C /°F
Type K (Cr-Al)	-200.0 to +1376.0°C / -328.0 to +2508.0°F	
Type T (Cu-Con)	-200.0 to +387.0°C / -328.0 to +728.0°F	
Type R (Rh-13%)	0.0 to +1771.0°C / +32.0 to +3219.0°F	
Type S (Rh-10%)	0.0 to +1768.0°C / +32.0 to +3214.0°F	
Type B	0.0 to +1826.0°C / +32.0 to +3218.0°F	
Type N	0.0 to +1314.0°C / +32.0 to +2397.0°F	1°C or 0.1°C
Reserved for customer specific Thermocouple type not listed above. The type shall be specified in accordance with the ordered (optional on request) Thermocouple type.		
RTD Pt100	-199 to +600 °C / -328 to +1112 °F or -199.9 to +600.0 °C / -328.0 to +1112.0 °F	
0 to 20 mA	-30000 to 30000 units	
4 to 20 mA		
0 to 80 mV		
Reserved	-30000 to 30000 units	
0 to 1.25 V		
0 to 5 V		
0 to 10 V		
1 to 5 V		

TABLE - 2	
Option	Description
°C	Degree Centigrade
°F	Degree Fahrenheit
(none)	No Unit (Blank)
°K	Degree Kelvin
EU	Engineering Units
%	Percentage
Pa	Pascals
Mpa	Mpascals
kPa	Kpascals

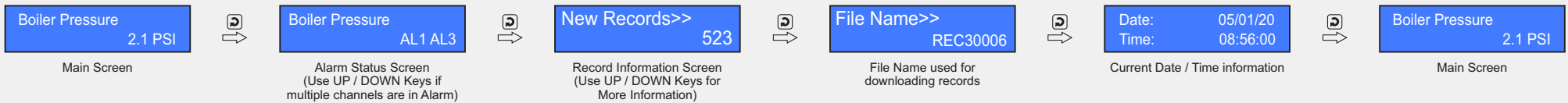
Option	Description
bar	Bar
mbar	Milli bar
psi	PSI
kg/sq.cm	kg/cm <sup>2</sup>
mmH <sub>2</sub> O	mm water gauge
inH <sub>2</sub> O	Inches water gauge
mmHg	mm mercury
Torr	Torr
litre/hr	Litres per hour
litre/min	Litres per minute
%RH	% Relative Humidity
%O <sup>2</sup>	% Oxygen
%CO <sup>2</sup>	% Carbon di-oxide
%CP	% Carbon Potential
V	Volts
A	Amps
mA	Milli Amps
mV	Milli Volts
ohm	Ohms
ppm	Parts per million
rpm	Revolutions per minute
mSec	Milli seconds
Sec	Seconds
min	Minutes
hrs	Hours
PH	PH
%PH	%PH
miles/hr	Miles per hour
mg	Milli grams
g	Grams
kg	Kilo grams

## FRONT PANEL DISPLAY & KEYS



Symbol	Key	Function
	SET-UP	Press to enter / exit Set-up Mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; holding the key pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; holding the key pressed speeds up the change.
	ENTER / Alarm ACK	Press to store the set parameter value and to scroll to the next parameter in Set-up Mode. Press to acknowledge / mute alarm output (if active).

## SCROLLING THROUGH VARIOUS SCREENS



## AUTO / MANUAL SCAN MODE SELECTION

Press ENTER key for approximately for 5 Seconds to toggle between Auto & Manual Scan Mode. In Manual Mode use UP / DOWN Keys to Select Channels.

## ELECTRICAL CONNECTIONS

### \*Notes:

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

