

# UniLog Pro / UniLog Pro Plus with AIS

Universal Process Data Recorder PC Software Version

# 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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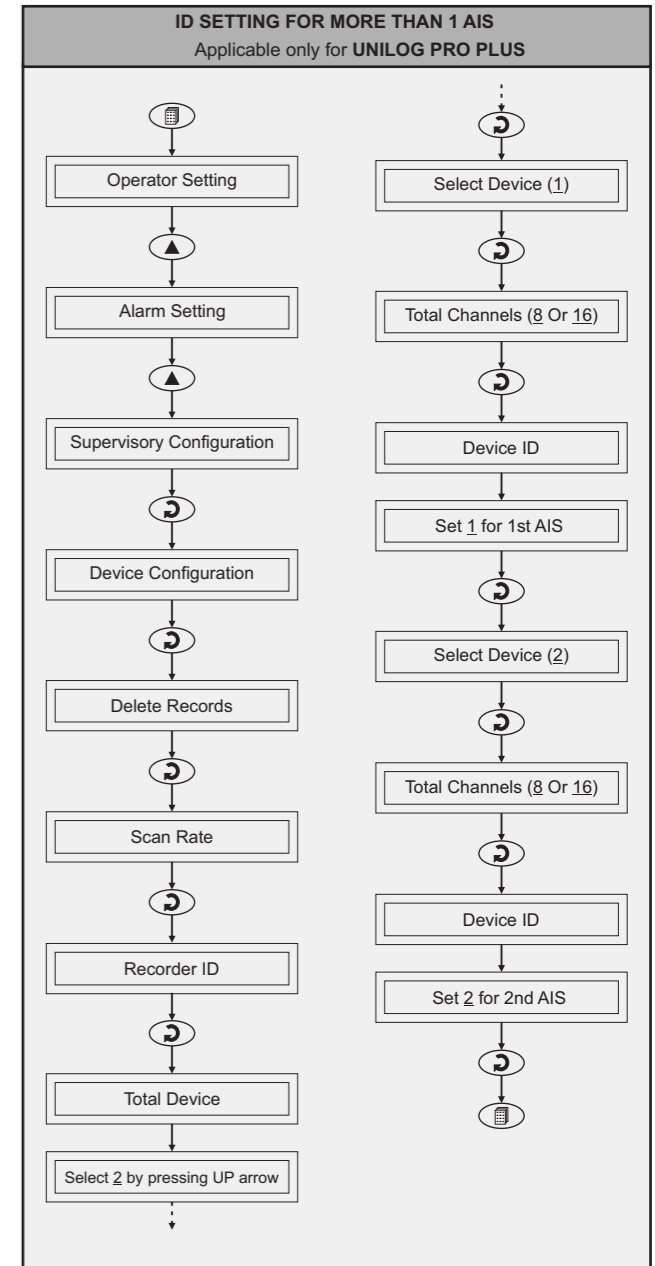
OPERATOR PARAMETERS	
Parameters	Settings (Default Value)
'Start' Command for Batch Recording (Available if Batch Recording is selected) BATCH START>> NO	No Yes
'Stop' Command for Batch Recording (Available if Batch Recording is selected) BATCH STOP>> NO	No Yes

DEVICE CONFIGURATION	
Parameters	Settings (Default Value)
Channel Update Time in Auto Scan Mode SCAN RATE>> 3	1 Sec. to 99 Sec. (Default : 3 Sec.)
Device Identification Number RECORDER ID>> 2	1 to 127 (Default : 1)
Select Total Numbers of Channels TOTAL CHANNELS>> 16	8 16 (Default : 16)
Erase All Stored Records DELETE RECORDS>> No	No Yes (Default : No)

ALARM CONFIGURATION	
Parameters	Settings (Default Value)
Alarms Per Channel ALARMS / CHAN >> 4	1 to 4 (Default : 4)
Relay-1 Logic RELAY-1 LOGIC >> Normal	Normal Reverse (Default : Normal)
Relay-2 Logic RELAY-2 LOGIC >> Normal	Normal Reverse (Default : Normal)

TABLE - 1	
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
bar	Bar
mbar	Milli bar
psi	PSI
kg/sq.cm	kg/cm <sup>2</sup>
mmH2O	mm water gauge
inH2O	Inches water gauge
mmHg	mm mercury
Torr	Torr
litre/hr	Litres per hour
litre/min	Litres per minute
%RH	% Relative Humidity
%O2	% Oxygen
%CO2	% 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

TABLE - 2		
Option	Range (Min. to Max.)	Resolution
J Type T/C E C - J	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
K Type T/C E C - K	-200 to +1376°C / -328 to +2508°F	
T Type T/C E C - T	-200 to +385°C / -328 to +728°F	
R Type T/C E C - R	0 to +1771°C / +32.0 to +3219°F	
S Type T/C E C - S	0 to +1768°C / +32 to +3214°F	
B Type T/C E C - b	0 to +1826°C / +32.0 to +3218°F	User settable 1°C / 1°F or 0.1°C / 0.1°F
N Type T/C E C - n	0 to +1314.0°C / +32 to +2397.0°F	
RESU	Reserved for customer specific Thermocouple type not listed above.	
RTD Pt100 r t d	-199 to +600°C / -328 to +1112°F or -199.9 to 600.0°C / -328.0 to 1112.0°F	
0-20	0 to 20mA DC	
4-20	4 to 20mA DC	
0050	0 to 50mV DC	
0200	0 to 200mV DC	
1.25	0 to 1.25V DC	
5.0	0 to 5.0V DC	
10.0	0 to 10.0V DC	
1-5	1 to 5.0V DC	



SUPERVISORY CONFIGURATION	
Boiler Temp. 91°C MAIN Display Mode First Available Page Header	SELECT PAGE>> Operator Page
SELECT PAGE>> Spvr. Config Passcode Screen	ENTER PASSCODE>> 0
ENTER PASSCODE>> 22 Set Passcode 22 First Supervisory Page Header	SELECT PAGE>> Device Config
SELECT PAGE>> Alarm Config Desired Supervisory Page Header	ALARMS / CHAN>> 4 First Alarms Config Parameter

CHANNEL CONFIGURATION	
Parameters	Settings (Default Value)
Select Channel Name SELECT CHANNEL>> Channel-1	User defined or default names for channel-1 to channel - 8 / 16 (Default : NA)
Skip Channel for Display SKIP>> No	No Yes (Default : Yes)
Signal Input Type INPUT TYPE>> Type K (Cr-AI)	Refer Table 2 (Default : Type K (Cr-AI))
Display Resolution for Measured PV RESOLUTION>> 0.1 Unit	1 Unit 0.1 Unit 0.01 Unit 0.001 Unit (Default : 0.1 Unit)
Display Units for Measured PV UNITS>> °C	Refer Table 1 (Default : °C)
Range Low RANGE LOW>> 0	-19999 to 30000 Counts with Selected Resolution (Default : 0.0)
Range High RANGE HIGH>> 1000	-19999 to 30000 Counts with Selected Resolution (Default : 100.0)
Apply Lower Clip on Displayed PV LOW CLIPPING>> Disable	Disable Enable (Default : Disable)
Preset Lower Clip Level LOW CLIP VAL>> 0.0	-19999 to 30000 (Default : 0)
Apply Upper Clip on Displayed PV HIGH CLIPPING>> Disable	Disable Enable (Default : Disable)
Preset Upper Clip Level HIGH CLIP VAL>> 100.0	-19999 to 30000 (Default : 100.0)
Zero Offset ZERO OFFSET>> 0	-1999 / 3000 or -1999.9 / 3000.0 (Default : 0)

RECORDER CONFIGURATION	
Parameters	Settings (Default Value)
Normal Recording Interval NORMAL INTERVAL>> 0:00:30	0:00:00 (H:MM:SS) to 2:30:00 (H:MM:SS) (Default : 0:00:30)
Zoom Recording Interval ZOOM INTERVAL>> 0:00:01	0:00:00 (H:MM:SS) to 2:30:00 (H:MM:SS) (Default : 0:00:01)
Record Generation on Alarm Status Toggle ALARM TOGGLE REC>> Disable	Disable Enable (Default : Enable)
Select Recording Mode RECORDING MODE>> Continuous	Continuous Batch (Default : Continuous)
Time Interval for Batch Recording BATCH TIME>> 1.00	0:01 (HH:MM) to 250:00 (HHH:MM) (Default : 1:00)

RTC SETTING	
Parameters	Settings
Set Clock Time (HH:MM) TIME (HH:MM)>> 15:53	0.0 to 23:59
Set Calendar Date DATE>> 23	1 to 31
Set Calendar Month MONTH>> 11	1 to 12
Set Calendar Year YEAR>> 2011	2000 to 2099

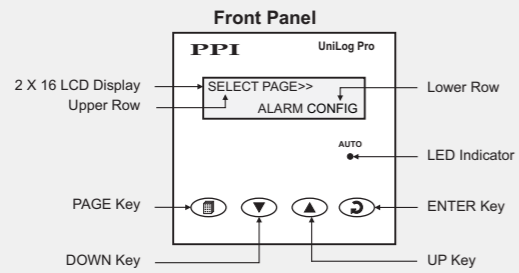
UTILITIES	
Parameters	Settings
Master Lock Enable Disable LOCK>> No	No Yes
UNLOCK>> No	No Yes
UIM Default UIM DEFAULT>> No	No Yes
CIM Default CIM DEFAULT>> No	No Yes
Make CIM & UIM Compatible CPY CIM TO UIM>> No	No Yes
CPY UIM TO CIM>> No	No Yes

Note: All the other Parameters are under SUPERVISORY CONFIGURATION

ALARM SETTING	
Parameters	Settings (Default Value)
Channel Name for Alarm Settings SELECT CHANNEL>> Channel-1	User defined or default names for channel-1 to channel-8 / 16 (Default : NA)
Select Alarm SELECT ALARM>> AL1	AL1, AL2, AL3, AL4 (The actual available options depends on the numbers of Alarms set per channel on Alarm configuration page)
Alarm Type AL1 TYPE>> None	None Process Low Process High (Default : None)
Alarm Setpoint AL1 SETPOINT>> 0	Min. to Max. of selected input type range (Default : 0)
Alarm Hysteresis AL1 HYSTERESIS>> 2	1 to 3000 or 0.1 to 3000.0 (Default : 2 or 2.0)
Alarm Inhibit AL1 INHIBIT>> Yes	No Yes (Default : No)

\* For UniLog Pro Plus with more Than One AIS Only

# FRONT PANEL LAYOUT



### Keys Operation

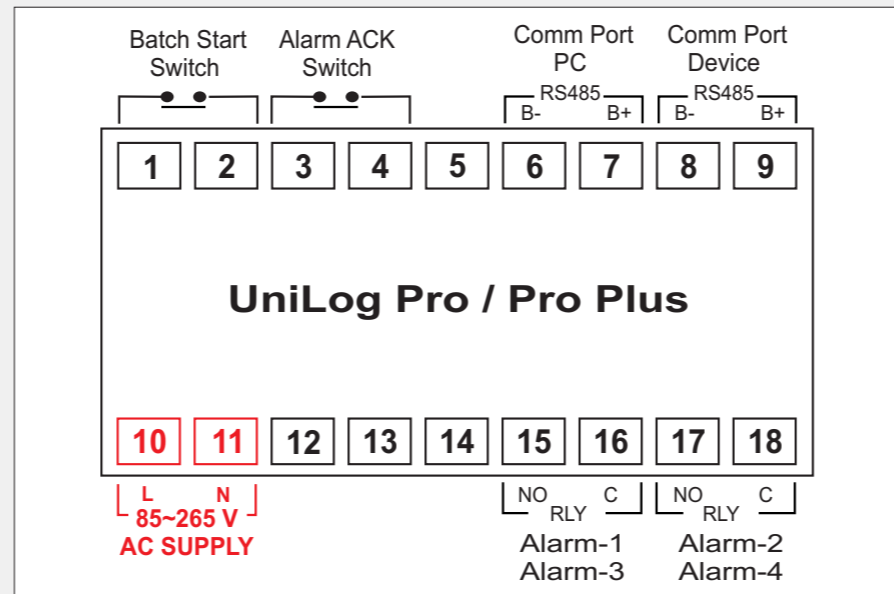
Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; holding pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; holding pressed speeds up the change.
	ENTER	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

### PV Error Indications

Error Message	Cause
Over Range	Process Value above Max. Range
Under Range	Process Value below Min. Range
Sensor Open	Thermocouple / RTD broken
Com. Fail	Communication Link with CIM broken

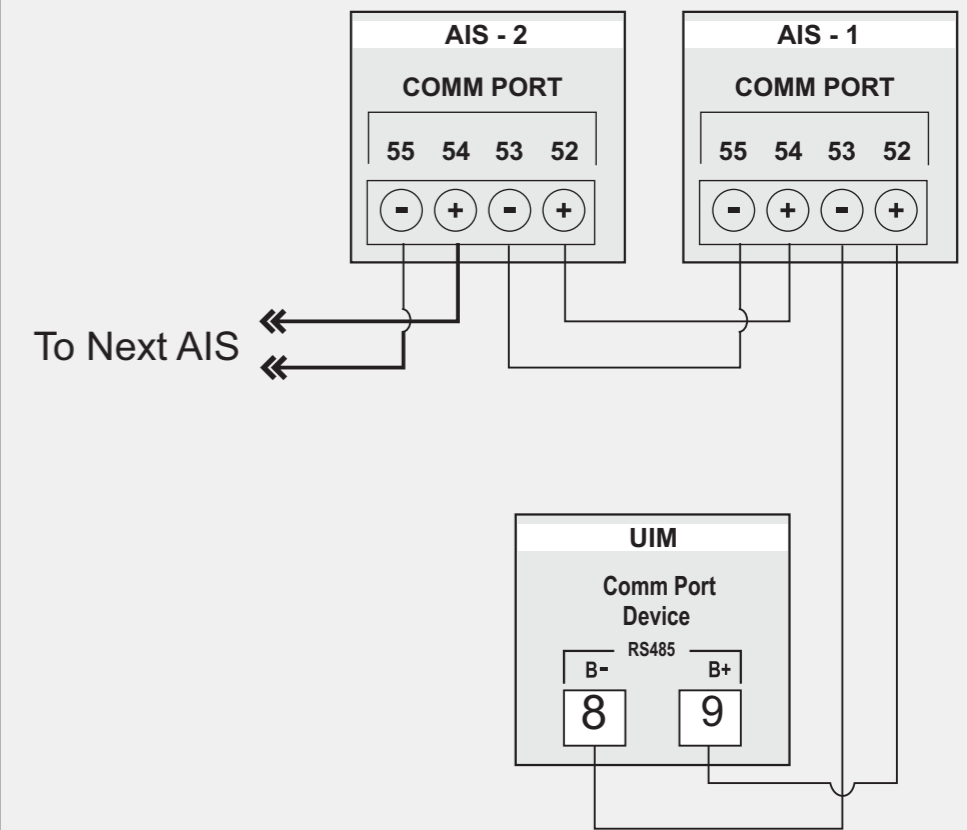
# ELECTRICAL CONNECTIONS

## USER INTERFACE MODULE (UIM)



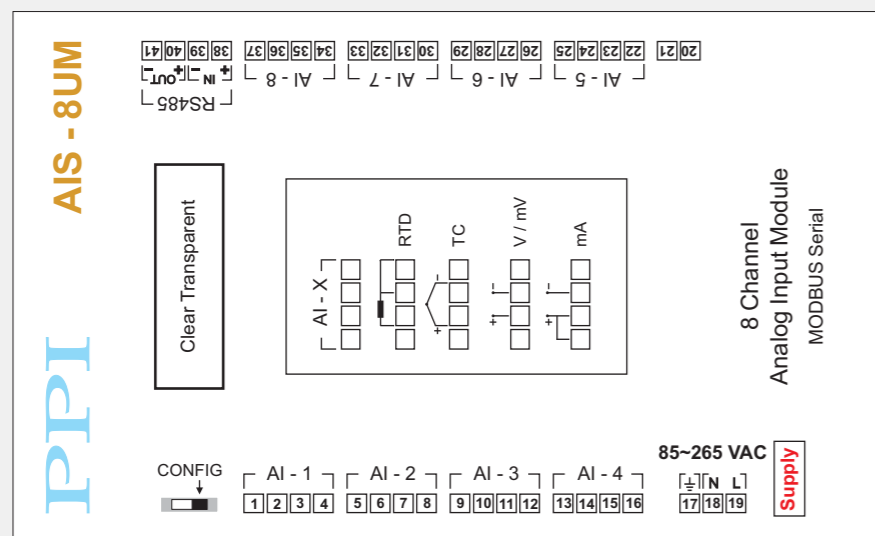
# COMMUNICATION PORT FOR INTERFACING WITH AIS(S)

Applicable only for **UNILOG PRO PLUS**



# ANALOG INPUT MODULE CONNECTIONS

## AIS-8UM



## AIS-16UM

