



PPI UniLog Pro Temperature Data Logger Instruction Manual

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UniLog Pro / UniLog Pro Plus with CIM
Universal Process Data Recorder PC Software Version

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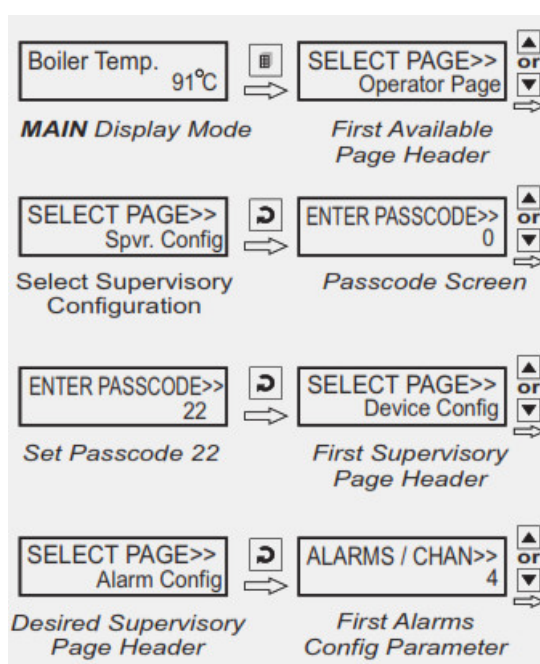
UniLog Pro Temperature Data Logger

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

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

SUPERVISORY CONFIGURATION



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 Precess 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)

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 to127 (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)
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-Al)	Refer Table 2 (Default : Type K (Cr-Al))
Display Resolution for Measured PV RESOLUTION>> 0.1 Unit	1 Unit 0.1 Unit 0.01 Unit * 0.001 Unit * (Default : 0.1 Unit) (* for 4-20mA)
Display Units for Measured PV UNITS>> °C	Refer Table 1 (Default : °C)
Range Low (for 4-20mA) RANGE LOW>> 0	-19999 to 30000 Counts with Selected Resolution (Default : 0.0)
Range High (for 4-20mA) RANGE HIGH>> 1000	-19999 to 30000 Counts with Selected Resolution (Default : 100.0)
Apply Lower Clip on Displayed PV (for 4-20mA) LOW CLIPPING>> Disable	Disable Enable (Default : Disable)

Preset Lower Clip Level (for 4-20mA) LOW CLIP VAL>> 0.0	-19999 to 30000 (Default : 0)
Apply Upper Clip on Displayed PV (for 4-20mA) HIGH CLIPPING>> Disable	Disable Enable (Default : Disable)
Preset Upper Clip Level (for 4-20mA) 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)

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)
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 (for Batch mode only) 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 UNLOCK>> No	No Yes
UIM Default UIM DEFAULT>> No	No Yes

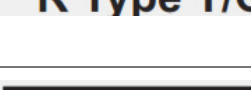
CIM Default CIM DEFAULT>> No	No Yes
Make CIM & UIM Compatible CPY CIM TO UIM>> No CPY UIM TO CIM>> No	No Yes

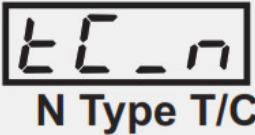
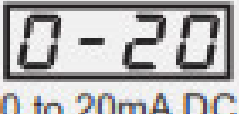
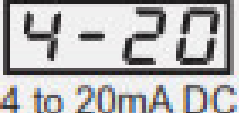
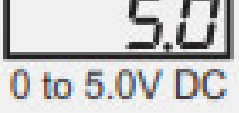
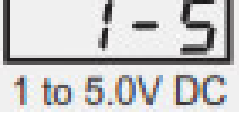
TABLE- 1	
Option	Description
°C	Degree Centigrade
°F	Degree Fahrenheit
(none)	No Unit (Blank)
°K	Degree Kelvin
EU	Engineering Units
%	Percentage
Pa	Pascals
Mpa	Mpascals
kPa	Kpascals

bar	Bar
mbar	Milli bar
psi	PSI
kg/sq.cm	kg/cm ²
mmH ₂ O	mm water gauge
inH ₂ O	Inches water gauge
mmHg	mm mercury
Torr	Torr
litre/hr	Litres per hour
litre/min	Litres per minute
%RH	% Relative Humidity
%O ₂	% Oxygen
%CO ₂	% 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

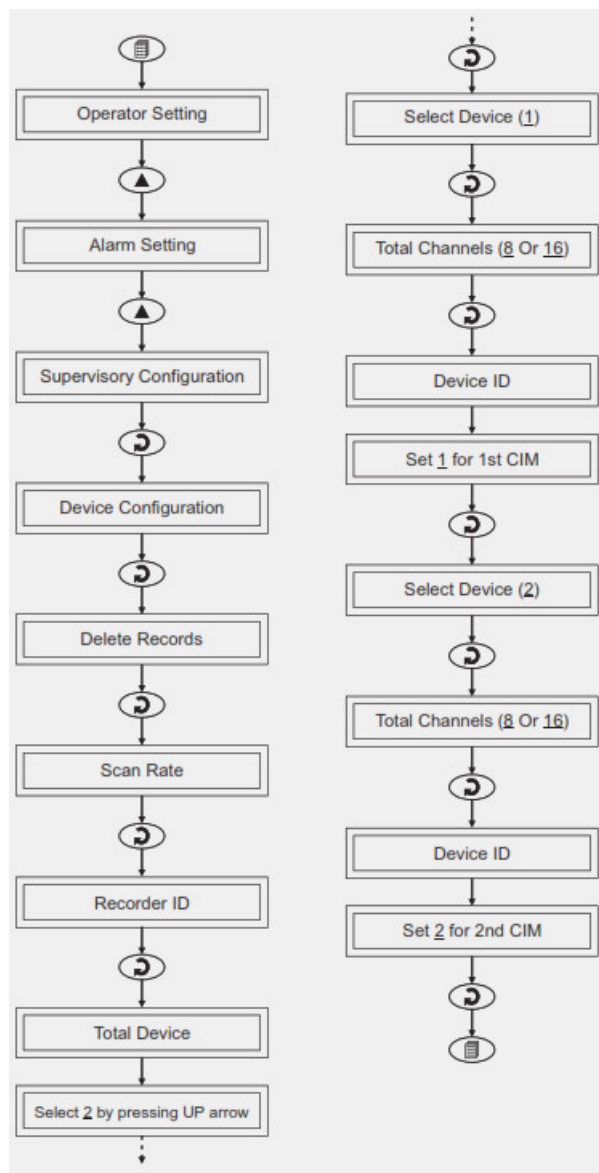
mg	Milli grams
g	Grams
kg	Kilo grams

TABLE- 2		
Option	Range (Min. to Max.)	Resolution
 J Type T/C	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
 K Type T/C		
 T Type T/C		
 R Type T/C	0 to +1771°C / +32.0 to +3219°F	
 S Type T/C	0 to +1768°C / +32 to +3214°F	
 B Type T/C		
 N Type T/C		

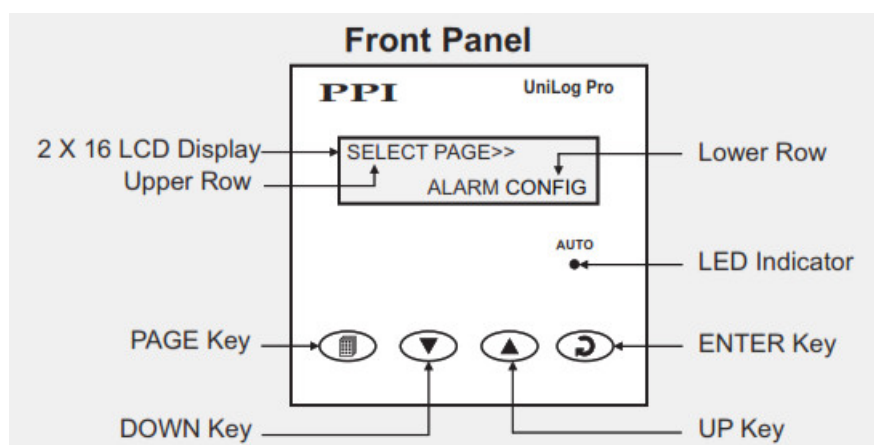
	Reserved for customer specific Thermocouple type not listed above.	
	-199 to +600°C / -328 to +1112°F -199.9 to or to 1112.0°F 600.0°C / -328.0	User settable 1°C / 1°F or 0.1°C / 0.1°F
       	19999 to +30000 units	User settable 1 / 0.1 / 0.01/ 0.001 units

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ID SETTING FOR MORE THAN 1 CIM
Applicable only for UNILOG PRO PLUS



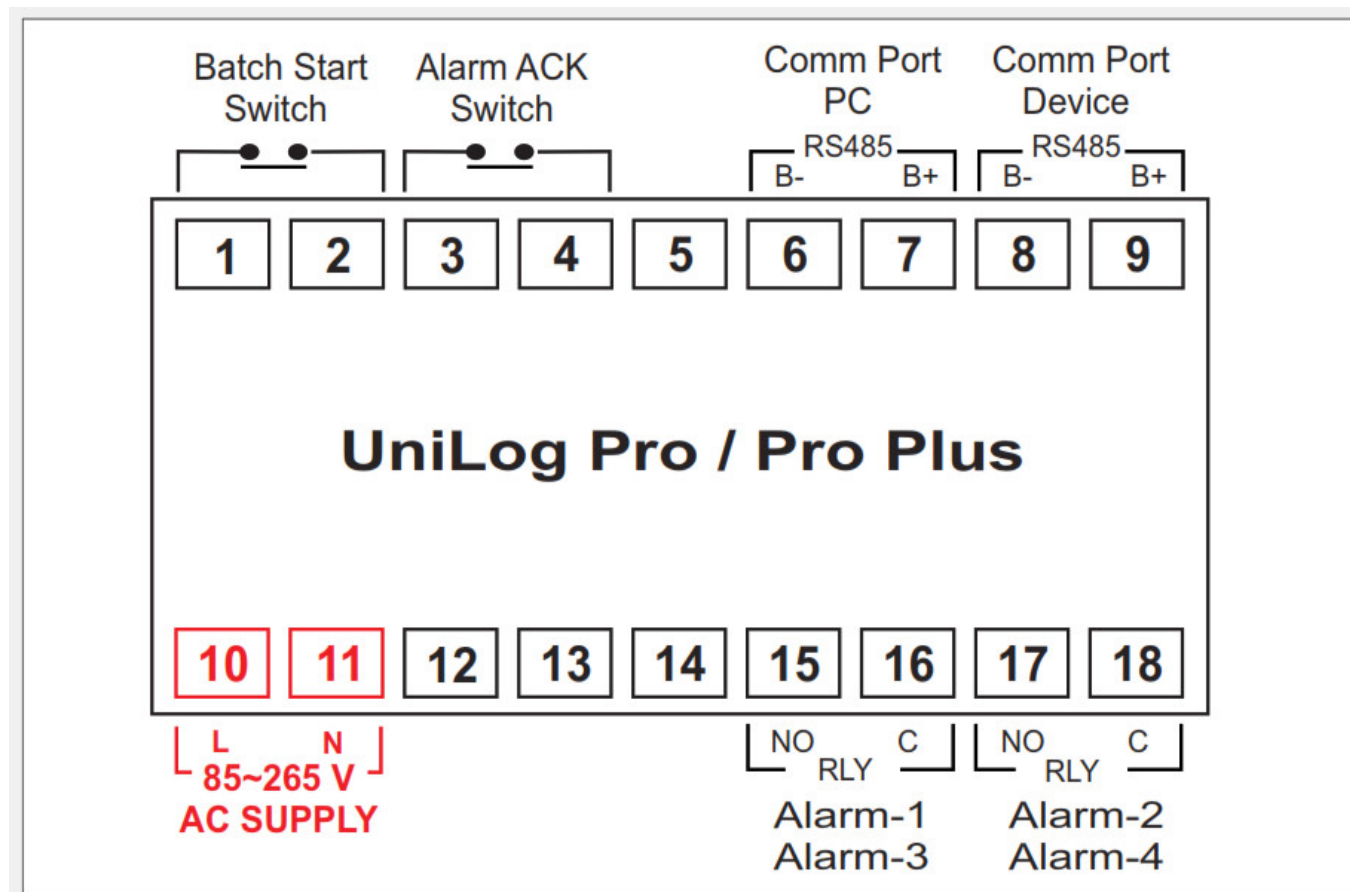
FRONT PANEL LAYOUT



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.

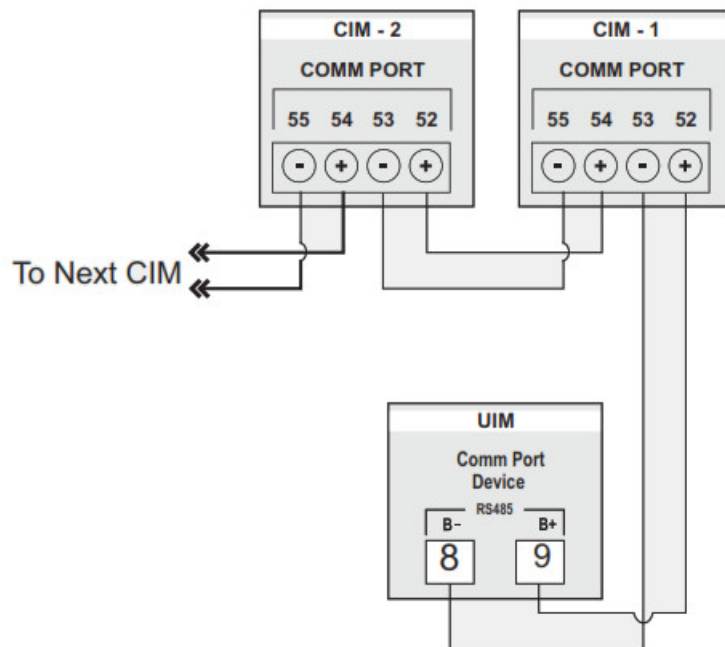
ELECTRICAL CONNECTIONS

USER INTERFACE MODULE (UIM)

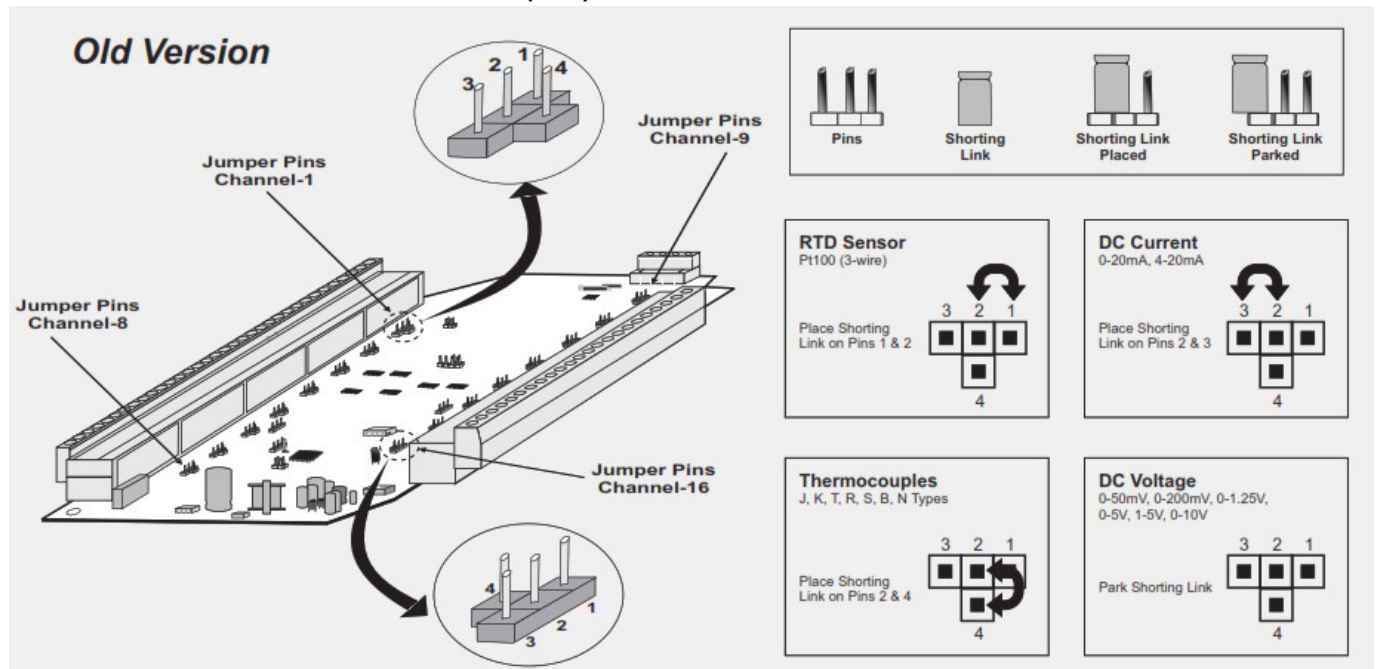


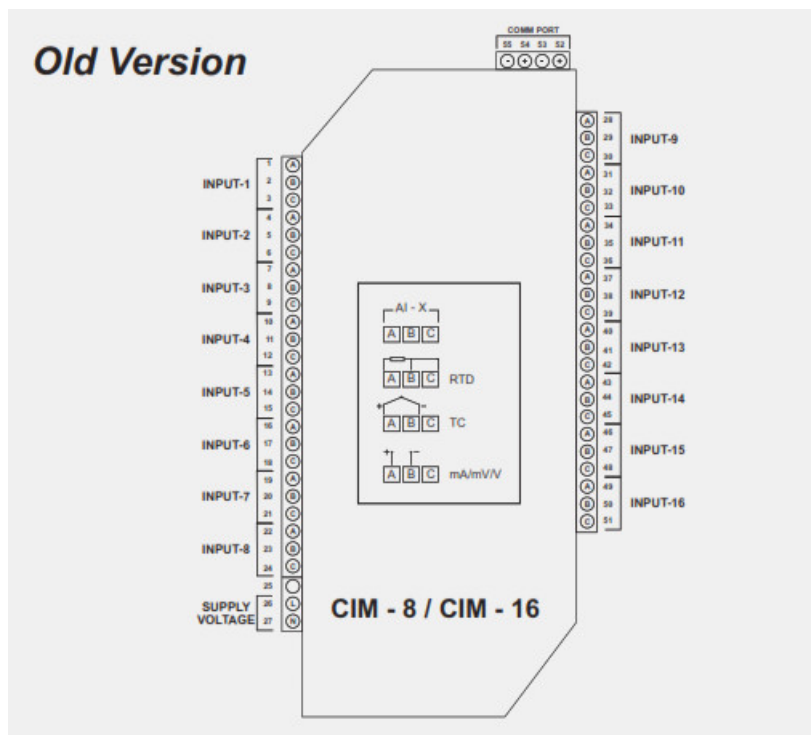
COMMUNICATION PORT FOR INTERFACING WITH CIM(S)

Applicable only for UNILog PLUS



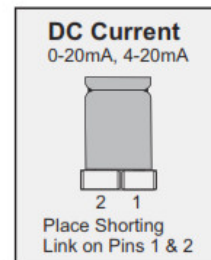
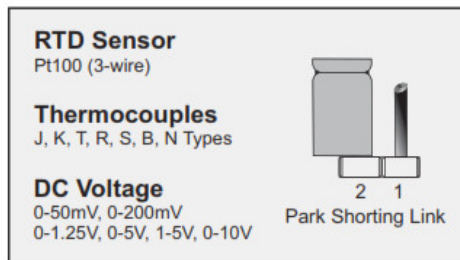
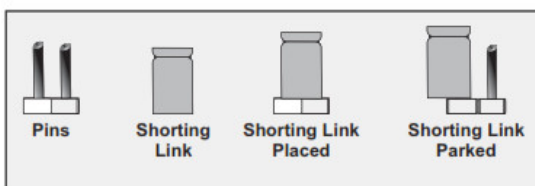
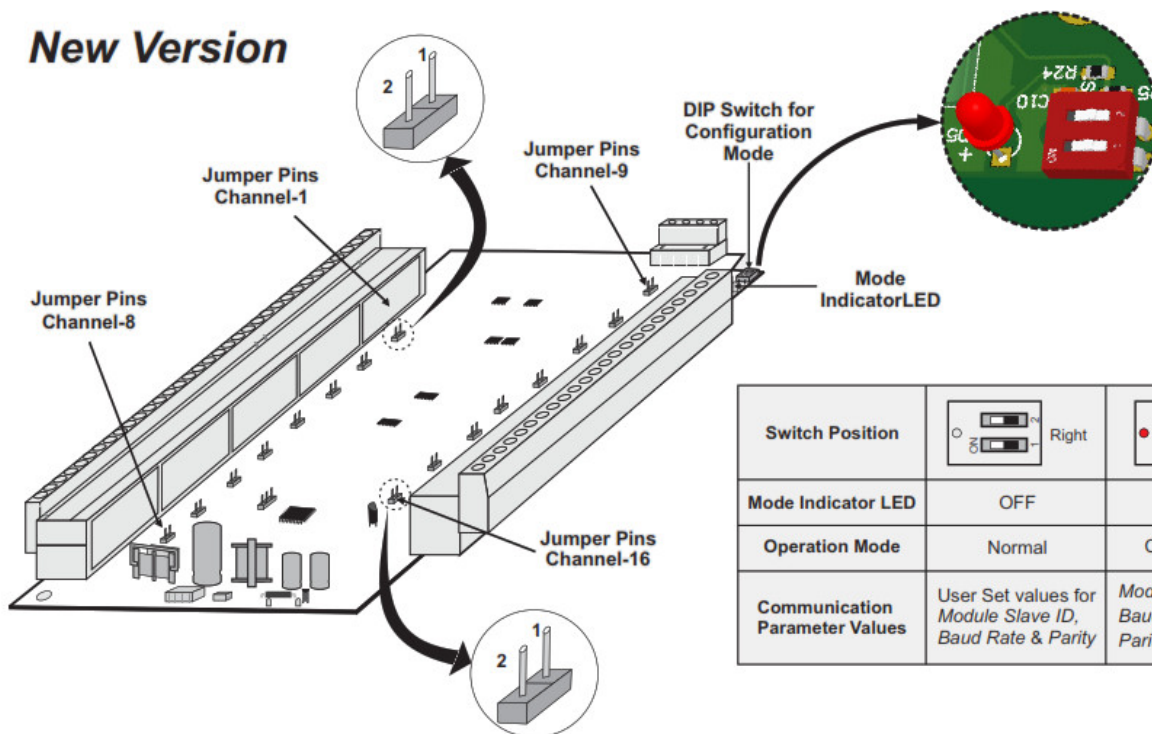
JUMPER SETTINGS INPUT-CHANNEL INTERFACE MODULE (CIM)



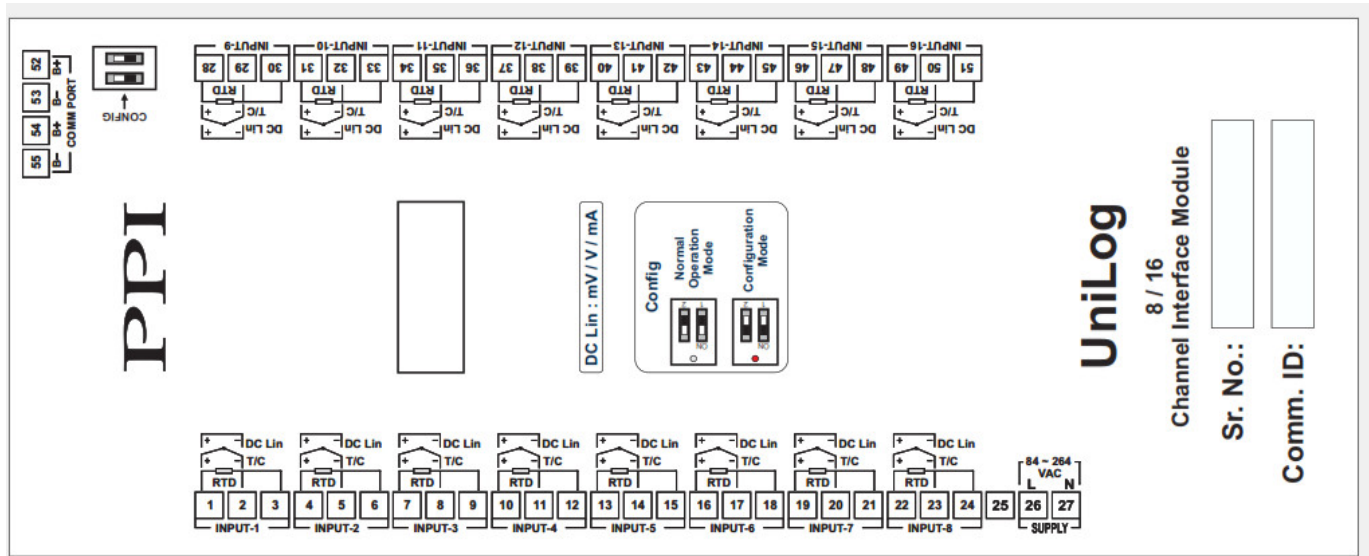


JUMPER SETTINGS INPUT-CHANNEL INTERFACE MODULE (CIM)

New Version



ELECTRICAL CONNECTIONS CHANNEL INTERFACE MODULE (CIM)



Documents / Resources



[PPI UniLog Pro Temperature Data Logger](#) [pdf] Instruction Manual
 UniLog Pro Temperature Data Logger, UniLog Pro, Temperature Data Logger, Data Logger, Logger

References

- [Factory Automation Products India | Automation Solutions in India](#)