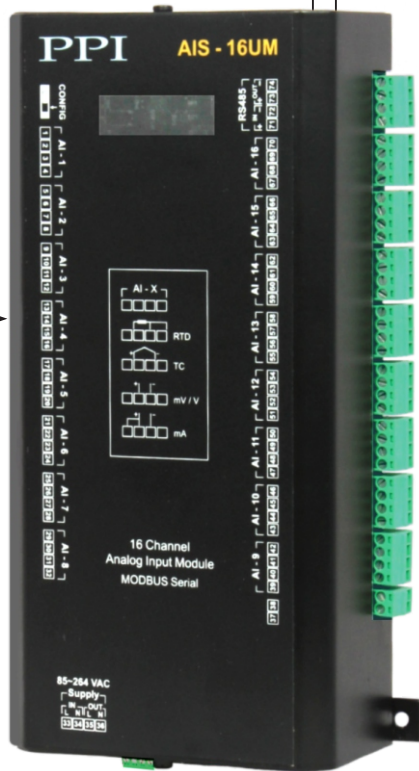
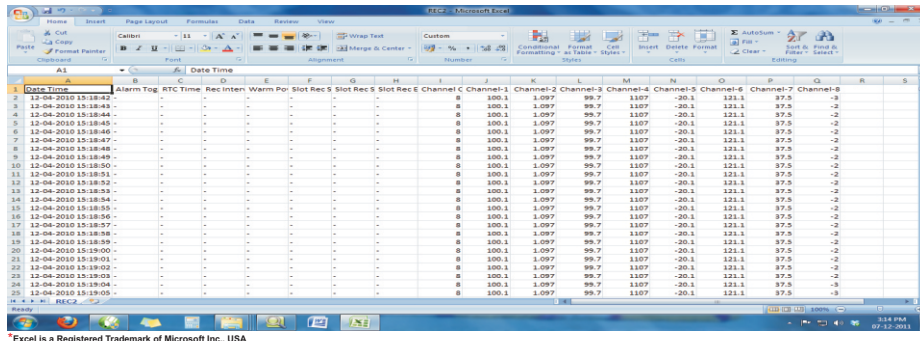


INPUT
(RTD, T/C,
DC LINEAR)



RS485

Carry 38 Lakh
Process Records
on Pen-Drive
... Directly to
Excel Sheet !!!

Date Time	Alarm Trog	RTC Time	Rec Inter	Warm Poi	Slot Rec S	Slot Rec E	Channel C	Channel-1	Channel-2	Channel-3	Channel-4	Channel-5	Channel-6	Channel-7	Channel-8
12-04-2010 15:18:41	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-3
12-04-2010 15:18:43	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:44	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:45	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:46	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:47	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:48	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:49	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:50	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:51	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:52	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:53	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:54	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:55	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:56	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:57	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:58	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:18:59	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:19:00	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:19:01	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:19:02	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:19:03	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:19:04	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-2
12-04-2010 15:19:05	-	-	-	-	-	-	B	100.1	1.097	99.7	1107	-20.1	121.1	97.5	-3

Highlights

- Split Process Interface and User Interface Modules to Minimize Sensor Cable Lengths
- User Programmable Channel Names & Display Units
- Huge Data Storage Capacity : Appx. 38,56,000 Records
- Flexible Data Transfer Mode :
Through USB Memory Stick (Pen-Drive) in Excel Format

Features

- Fixed 8 or 16 Channels
- Universal Process Input (Thermocouples, RTD Pt100, mA, mV, V) for Each Channel
- Fast Channel Update Rate : 0.5 Seconds per Channel
- Each Channel with Upto 4 Programmable Soft Alarms
- Adjustable Zero Offset for Each Channel
- 32 Point User Linearization for DC Linear Input for Each Channel
- Auto / Manual Scan Mode with Settable Scan Time
- 1 Common High & 1 Common Low Alarm Relay Outputs
- Date / Time Stamped Process Value (PV) & Alarm Status Recording for Each Channel
- Continuous or Batch Recording with Programmable Recording Interval
- Universal Supply Voltage : 85~264 VAC, 50/60 Hz
- Flame-proof Enclosure (Gas Group IIA & IIB) Available

Specifications

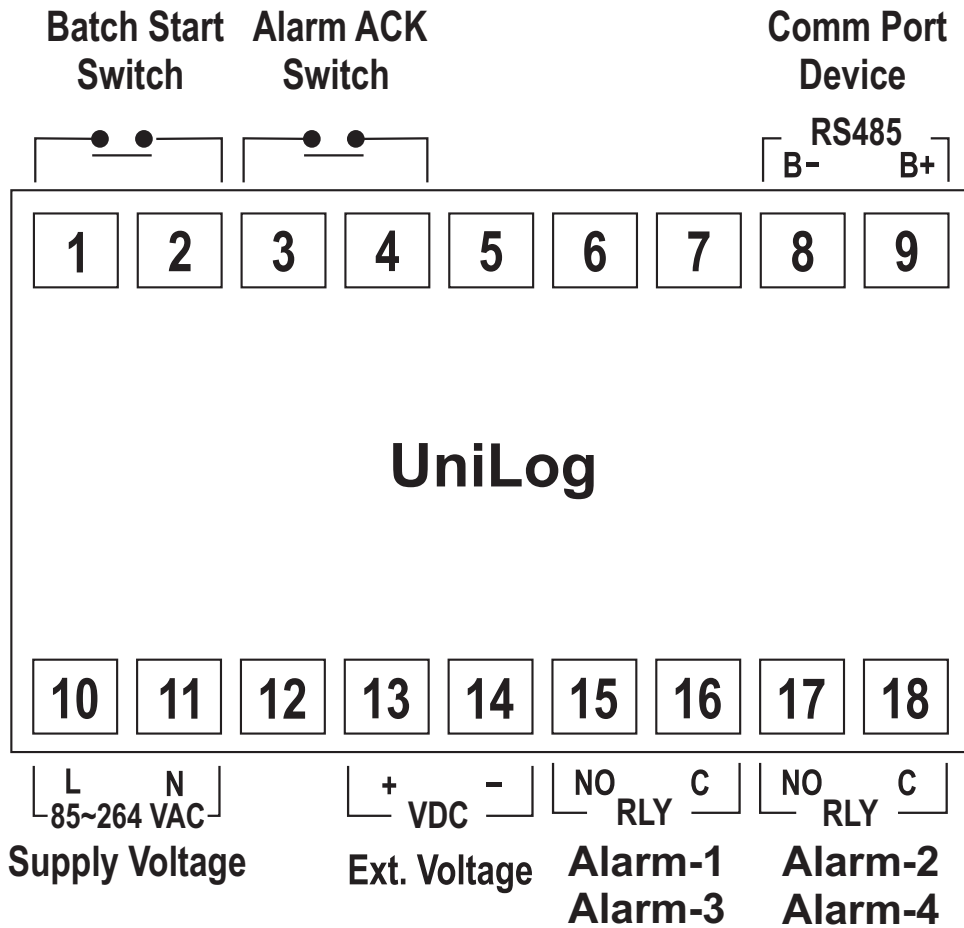
Analog Input Module	
Channels	AIS-8U & AIS-8UM : 8 Differential Inputs, AIS-16UM : 16 Differential Inputs
Input Type	Each Channel Independently Programmable - No Jumper Settings Thermocouple : J, K, T, R, S, B, N RTD : Pt100, 3 wire DC Linear : 0-20 mA, 4-20 mA; 0-70 mV; 0-5 V, 0-10 V, 1-5 V
Corrections	In-built Cold-Junction Compensation for Thermocouples In-built Lead Resistance Compensation for RTD (Upto 22 Ohms in each lead)
Accuracy	Thermocouples & RTD Pt100 : $\pm 0.25\%$ of reading $\pm 1^\circ\text{C}$ DC Linear Volts / Current : $\pm 0.25\%$ of reading ± 1 LSD
Range	Refer Table-1 for Thermocouples & RTD Pt100 Inputs Adjustable from -19999 to 30000 Counts for DC Linear mA/mV/V
Indication Resolution	Thermocouples & RTD Pt100 : 0.1 / 1 ($^\circ\text{C}$ / $^\circ\text{F}$) DC Linear Volts / Current : 0.001 / 0.01 / 0.1 / 1 (User Programmable)
Zero Offset	User Adjustable over Full Range
ADC	16 Bit ($\pm 32,768$ Counts), Sigma-Delta ($\Sigma\Delta$)
Sampling Time	500mS Per Channel
Input Resistance	> 8 MOhm
Common Mode Rejection	> 100dB at 50/60 Hz
Signal Conditioning	L-C Analog Filter
Alarms	4 Alarms per Channel with Settable Alarm Type & Hysteresis
Power Supply	AIS-8UM & AIS-16UM : 85~265 VAC, 50/60 Hz, Single Phase AIS-8U : 20~32 VDC (24 VDC Nominal)
Dimensions (mm)	AIS-8U & AIS-8UM : 115 (W) X 131 (L) X 52 (H), AIS-16UM : 115 (W) X 208 (L) X 52 (H)
Mounting	Wall Mounting, DIN-Rail
Connections	Screw Type, Male-Female Detachable
User Interface Module	
Digital Readout	2 Rows of 16 Characters LCD Display with Back-Light LED
Keys	4 Tactile Switches (PAGE, DOWN, UP, ENTER)
Pen-Drive Interface	USB Connector Type A
Recording Capacity	2 GB Flash Memory (Approx. 38,56,000 Records)
Recording Mode	Continuous, Batch
Recording Interval (User Settable)	Hours : Minutes (4 Hr : 59 Min) or Minutes : Seconds (59 Min : 59 Sec)
Alarm Outputs	1 Common High & 1 Common Low Alarm Relay (2A @ 230VAC)
Power Supply	85~264 VAC, 50/60 Hz, Single Phase
Dimensions (mm)	96 (H) X 96 (W) X 65 (D)
Mounting	Panel, Cutout 92 (H) X 92 (W), mm
Connections	Screw Type

Table 1 : Temperature Ranges for Thermocouples & RTD

Input Type	Range (Min. to Max.)
Type J Thermocouple (Fe-K)	0 to +960°C / +32 to +1760°F
Type K Thermocouple (Cr-Al)	-200 to +1376°C / -328 to +2508°F
Type T Thermocouple (Cu-Con)	-200 to +385°C / -328 to +725°F
Type R Thermocouple (Pt/Pt-Rh13%)	0 to +1770°C / +32 to +3218°F
Type S Thermocouple (Pt/Pt-Rh10%)	0 to +1765°C / +32 to +3209°F
Type B Thermocouple	0 to +1825°C / +32 to +3092°F
Type N Thermocouple	0 to +1300°C / +32 to +2372°F
3-wire, RTD Pt100	-199 to +600°C / -328 to +1112°F or -199.9 to 600.0°C / -199.9 to 999.9°F

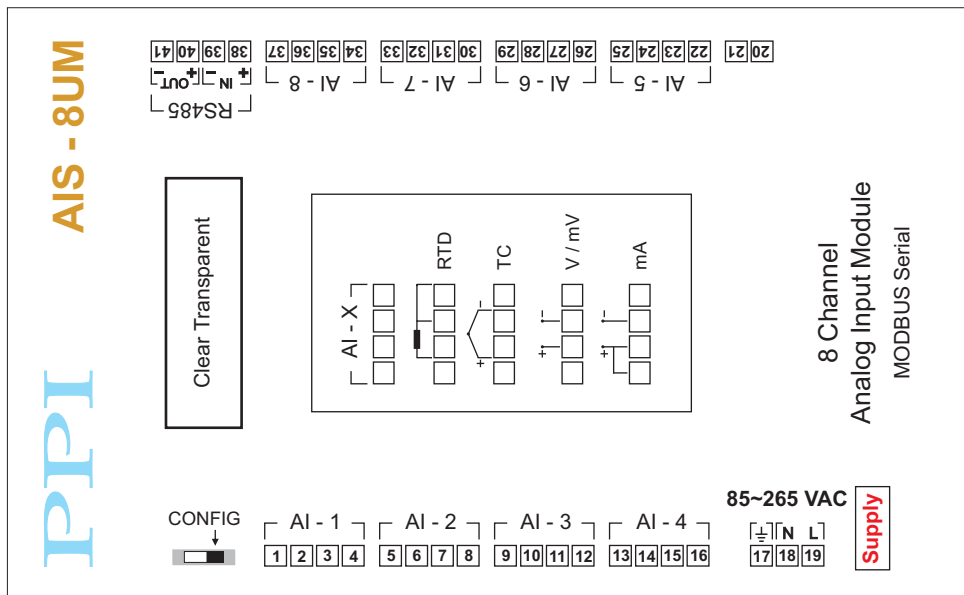
Back Panel Terminations

User Interface Module

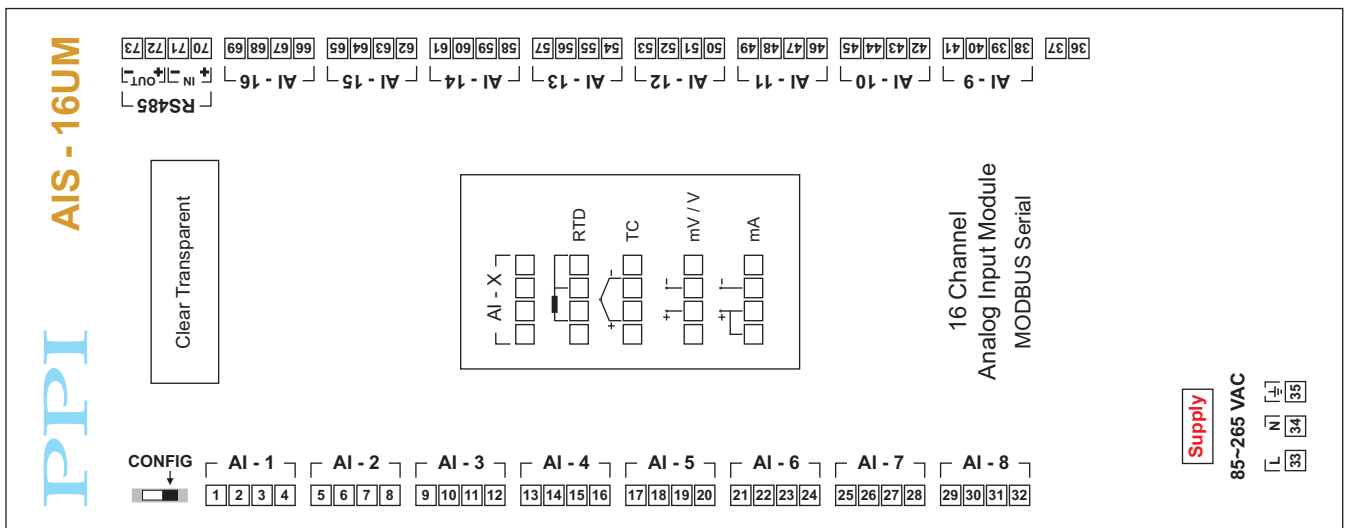


Process Interface Module

8 Channel Module : AIS-8UM



16 Channel Module : AIS-16UM



Process Precision Instruments (An ISO 9001 : 2008 Company)

101, Diamond Industrial Estate, Navghar, Vasai Road (E), Dist. Palghar - 401210, Maharashtra, India
 Sales : 8208199048 / 8208141446 Support : 07498799226 / 08767395333
 sales@ppiindia.net www.ppiindia.net

