

FACTORY AUTOMATION PRODUCTS



PPI
The Perfection Experts



Temperature Indicators & Controllers

Process Indicators & Controllers

Process Monitoring & Data Acquisition Systems

Process Data Recording Systems

Temperature Sensors & Transmitters

Company Profile



- Company** : Process Precision Instruments (Popularly known as PPI)
- Established** : 1987
- Work Force** : 100+ (more than 80% are Graduate Engineers)
- Core Activities** : Manufacturing Laboratory Test Products, Factory Automation Products, Data Logging Systems, Customized Control Systems & Temperature Sensors (Thermocouple RTDs)
- Sales & Support** : In All Major Cities / Towns of India through Resident Sales Engineers / Dealers / Channel Partners

Instruments Division



Temperature Sensors Division



Temperature Indicators & Controllers

Economic Temperature Indicator with Alarms

IndeX+

- 4 Digit Bright Red 7 Segment LED Readout
- User Selectable Inputs : J/K Thermocouples, RTD Pt100
- Programmable Digital Filter & Zero Offset
- **Facility to View & Store Min / Max Process Values**
- **2 Programmable Alarms with Relay Outputs**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 85(D), 48(H) X 96(W) X 65(D)
72(H) X 72(W) X 65(D), 96(H) X 96(W) X 65(D)



Economic Single Set Point Temperature Controller

OmniX



- Dual Row 4 Digit LED Display
- Jumper-less Selectable Inputs : J/K Thermocouples, RTD Pt100
- Programmable Digital Filter & Zero Offset
- **Programmable Self Tune PID or On-Off Control**
- **Overshoot Inhibit Feature**
- Programmable Heat / Cool Control Mode
- Relay & SSR Control Output (No Jumper Setting)
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 85(D), 72(H) X 72(W) X 65(D)
96(H) X 96(W) X 65(D)

Economic Dual Set Point Temperature Controller with TIMER

OmniX Plus

- Dual Row 4 Digit LED Display
- Jumper-less Selectable Inputs : J/K Thermocouples, RTD Pt100
- Programmable Digital Filter & Zero Offset
- **Programmable Self Tune PID or On-Off Control**
- **Overshoot Inhibit Feature**
- Programmable Heat / Cool Control Mode
- Relay & SSR Control Output Versions
- **In-built Programmable Timer with Front / Remote Start**
- **Auxiliary Control : Blower / Alarm / Compressor with Time Delay**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 85(D), 72(H) X 72(W) X 65(D),
96(H) X 96(W) X 65(D)



Temperature Indicators & Controllers

PID Temperature Controller with Programmable Timer & Comm Port

zenex

- **Universal Temperature Input (J, K, T, R, S, B, N Thermocouples & RTD Pt100)**
- Programmable Digital Filter & Zero Offset
- **Programmable Self Tune PID or On-Off Control**
- **Overshoot Inhibit Feature**
- Heat (Reverse) or Cool (Direct) Control Mode
- Relay / SSR Control Output (No Jumper Settings)
- **In-built Programmable Timer with Front / Remote Start**
- Auxiliary Control : Blower / Alarm / Compressor with Time Delay
- Optional Alarm 2 or 3 Output Version
- **RS485, MODBUS Serial Communication Port**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 110(D), 96(H) X 96(W) X 65(D)



Universal PID Temperature Controller with Ramp / Soak Profile

ApeX



- **Universal Temperature Input : J, K, T, R, S, B, N Thermocouples, RTD Pt100**
- Programmable Digital Filter & Zero Offset
- **Programmable Self Tune PID or On-Off Control**
- **Overshoot Inhibit Feature**
- Heat (Reverse) or Cool (Direct) Control Mode
- Relay / SSR or DC Linear Voltage / Current Control Output
- **In-built 4 Ramp + 4 Soak Profile**
- Optional, 2 Programmable Alarm / Auxiliary Control Outputs
- Optional RS485, MODBUS Serial Communication Port
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 110(D), 96(H) X 96(W) X 65(D)

Compact Dual Zone Self Tune PID Temperature Controller

Delta

- **2 PID Controllers in Compact Enclosure**
- J / K Thermocouple & RTD Pt100 Input Versions
- **Independent Display for Each PID**
- **Independent Self Tune PID with Overshoot Inhibit Feature**
- **Optional Auxiliary Control for Each PID : Blower / Alarm**
- Relay / SSR Control Outputs
- Optional RS485, MODBUS Serial Communication Port
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 48(H) X 48(W) X 110(D)



Process Indicators & Controllers

Economic Process Indicator with Alarms

ProceX

- 4 Digit LED Display
- **Programmable DC V / mA Input : 0-20mA, 4-20mA, 0-5VDC, 0-10VDC**
- Programmable Process Value Range & Resolution (Decimal Point)
- Programmable Zero Offset
- **Facility to View & Store Min / Max Process Value**
- 2 Independent Programmable Alarms with Relay Outputs
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 85(D), 48(H) X 96(W) X 65(D)
72(H) X 72(W) X 65(D), 96(H) X 96(W) X 65(D)



Programmable Universal Process Indicator

Neuro 100



- **Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)**
- Programmable Range / Resolution for DC Linear Inputs
- Programmable Digital Filter & Zero Offset
- **32 Point User Defined Linearization for DC Linear Input**
- **Facility to View & Store Min/Max Process Value**
- °C / °F Units Selection for Thermocouples / RTD Pt100 Inputs
- 2 Programmable Alarms with Optional Relay Outputs
- **Retransmission Output (0/4-20 mA)**
- Optional RS485, MODBUS Serial Communication Port
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 110(D), 96(H) X 96(W) X 65(D)

5 Digit Programmable Universal Process Indicator

UPI-5D

- 5 Digits, 7 Segment, 0.56" Height, Bright Red LED Display
- **Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)**
- Programmable 0.1/1 Count Resolution & °C/°F Units for Thermocouples / RTD Pt100 Inputs
- Programmable Range / Resolution for DC Linear Inputs
- Programmable Digital Filter & Zero Offset
- **32 Point User Defined Linearization for DC Linear Input**
- Facility to View & Store Min/Max Process Value
- **Square Root Extraction for Flow Rate Indication**
- 2 Programable Alarms with Front Panel 'ACK' Key
- Optional Isolated Retransmission Output & Serial Communication Port
- **Excitation Voltage (24 VDC @ 40mA) for Transmitter Supply**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 48(H) X 96(W) X 75(D)



Process Indicators & Controllers

5 Digit Enhanced Universal Process Indicator

neuro 100EX



- **Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)**
- Programmable Range / Resolution for DC Linear Inputs
- Programmable Digital Filter & Zero Offset
- **32 Point User Defined Linearization for DC Linear Input**
- **Facility to View & Store Min/Max Process Value**
- Up to 4 Programmable Alarms with Front Panel 'ACK' Key
- Optional Retransmission Output & Serial Communication Port
- **Excitation Voltage (24 VDC @ 40mA) for Transmitter Supply**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 96(H) X 96(W) X 100(D)

Enhanced Range (-19999 to +99999) Universal Process Indicator

neuro 100Z

- **User Selectable DC Linear Inputs : mA/mV/V**
- **24 VDC @ 30 mA Transmitter Excitation Supply Voltage**
- **Enhanced Display Range : -19,999 to +99,999 Counts**
- Programmable Resolution : 1 / 0.1 / 0.01 / 0.001
- 4 Programmable Alarms with Optional Relay Outputs
- Retransmission Output (0/4-20 mA or 0-5/10 V)
- RS485 MODBUS/RTU Serial Communication Port
- **Excitation Voltage (24 VDC @ 40mA) for Transmitter Supply**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 96(H) X 96(W) X 100(D)



Flow Rate Indicator cum Totaliser

Florex



- DC Analog Current / Voltage Input
- **5 Digit Flow Rate Indication with Programmable Time Base, Range and Resolution**
- **Square Root Extraction (ΔP to Flow Rate Conversion)**
- **32-Point User Linearization for Non-Linear DC Input**
- Facility to View & Store Min/Max Flow Rate Values
- Retransmission Output Proportional to Flow Rate
- 2 Programmable High/Low Flow Rate Alarms with Relay Outputs
- **8 Digit Total Flow Indication with Auto Roll-over & Over-flow Counts**
- **Timer for Recording the Total Flow Time (HH:MM:SS)**
- Power-fail Retention of Total Flow Counts & Time
- 2 Total Flow Limits for Alarm & Batch Control with Relay Outputs
- **24 VDC @ 30 mA Transmitter Excitation Supply Voltage**
- RS485 Port for MODBUS Over Serial Communication
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 96(H) X 96(W) X 100(D)

Process Indicators & Controllers

Self Tune PID Process Controller with Ramp / Soak Profile

Epsilon



- Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- **Self Tune PID, On-Off, Pulsed Control Mode**
- **Optional Bi-Directional Control**
- Relay / SSR or DC Linear Voltage / Current Control Output
- **4 / 8 / 12 / 16 Segment Ramp/Soak Profile**
- **Optional Auxiliary Control Set Point with Remote Switching Input**
- Optional Programmable Alarms / Retransmission Outputs
- **RS485, MODBUS Serial Communication Port**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 48(H) X 48(W) X 110(D)

Advanced Universal Single Loop Process Controller

Neuro 102 Plus

- Universal Process Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- Self Tune PID (with Auto / Manual Bump-less Transfer), On-Off or Pulsed On-Off Control
- **Isolated Selectable Control Output : Relay / SSR / mA or V**
- **Ramp / Soak Setpoint Profile & Remote / Auxiliary Setpoint Input**
- **PV/SP Retransmission, Process Alarms & Serial Comm. Port**
- **Excitation Voltage (24 VDC @ 40mA) for Transmitter Supply**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 110(D), 96(H) X 48(W) X 100(D)
96(H) X 96(W) X 100(D)



5 Digit Enhanced Universal Single Loop Process Controller

Neuro 102EX



- Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- **32 Point User Defined Linearization for DC Linear Input**
- **Up to 3 Analog Outputs, 5 Digital Outputs & 2 Digital Inputs**
- Self Tune PID, On-Off, Pulsed Control Mode
- Auto / Manual Control with Bumpless Transfer
- **Uni-Directional / Bi-Directional Control**
- **In-built 16 Segment Ramp / Soak Profile**
- **Auxiliary Control Set Point with Remote Switching Input**
- Optional Programmable Alarms / Retransmission Outputs
- **RS485, MODBUS Serial Communication Port**
- **Excitation Voltage (24 VDC @ 40mA) for Transmitter Supply**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 96(H) X 96(W) X 100(D)

Process Indicators & Controllers

Universal Single Loop Multi-Program Profile Controller

Neuro 105

- Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- Universal Control Output (Relay / SSR / DC mA / V)
- Programmable Range / Resolution for DC Linear Inputs
- Programmable Digital Filter & Zero Offset
- **16 Profiles (Programs) of 16 Segments Each (8 Ramp + 8 Soak)**
- **Facility to Link Programs to Build Larger Profiles (Up to 256 Segments)**
- **Programmable Hold Band for Each Profile**
- **Online Profile Pause, Segment Skip & Segment Advance**
- **Programmable Repeat Cycles for Each Profile**
- **Optional Programmable Event Outputs per Segment**
- Self Tune PID, On-Off, Manual Control Mode
- Uni-Directional / Bi-Directional Control
- Optional Programmable Alarms / Retransmission Outputs
- **Optional RS485, MODBUS Serial Communication Port**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Sizes (mm) : 48(H) X 48(W) X 110(D), 96(H) X 96(W) X 65(D)



Open Loop Motorized Valve Controller

Neuro 104

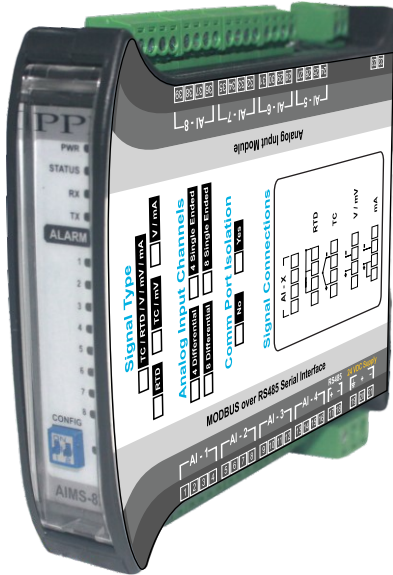


- Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- Programmable Range / Resolution for DC Linear Inputs
- Programmable Digital Filter & Zero Offset
- Auto / Manual PID Control with Bumpless Transfer
- **Forward - Reverse Relay Outputs for Motorized Valve Control**
- **Programmable Inertia and Backlash Time for Accurate Valve Control**
- **In-built 4 Ramp + 4 Soak Profile**
- **Optional Auxiliary Control Set Point with Remote Switching Input**
- Optional Programmable Alarm / Retransmission Output
- **RS485, MODBUS Serial Communication Port**
- Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 48(H) X 48(W) X 110(D)

Process Monitoring & Data Acquisition Systems

4 / 8 Channel DIN-Rail Analog Input Modules MODBUS over RS485 Serial Interface, 24VDC Operated

AIMS - 4 / 8

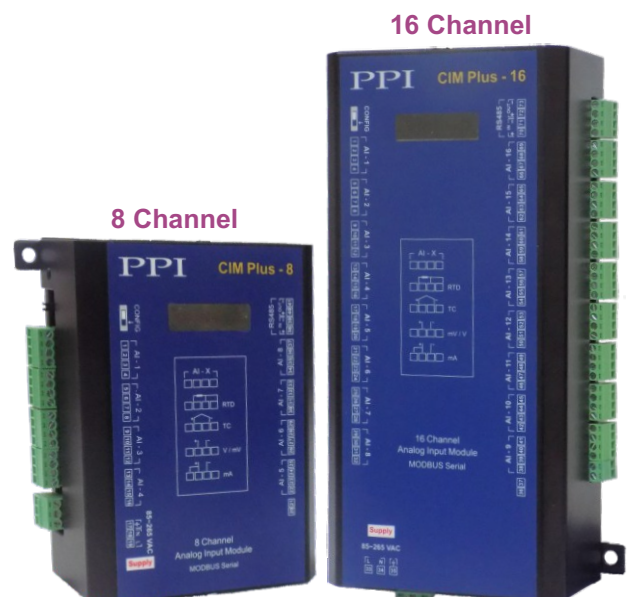


- **4 or 8 Single-Ended or Differential Input Analog Channels**
- Input Type Versions
 - **U** : Each Channel Independently Configurable for Thermocouples, RTD Pt100, Volts, mV and mA (No Jumper Settings)
 - **P** : All Channels RTD Pt100 (3-Wire)
 - **T** : Each Channel Independently Configurable for Thermocouples / mV
 - **D** : Each Channel Independently Configurable for DC V / mA
- RS485 Serial Interface (MODBUS / RTU Protocol) with Settable Slave ID, Baud Rate & Parity
- 4 Programmable Soft Alarms for each Channel with LED Indicators
- Isolated Version Available (All Channels Isolated from RS485 Port)
- **Free PC Tool for Easy Configuration and Parameter Settings**
- **Fast Channel Update Rate**
- **16 Bit Sigma-Delta ADC ($\pm 32,768$ Counts)**
- High Accuracy, High Resolution, High Stability
- Automatic CJC for Thermocouple & LRC for RTD Inputs
- Software Linearization for Thermocouple & RTD Inputs
- User Settable Range Low & Range High for DC V / mV / mA Inputs
- **Wide Supply Voltage Range : 20 ~ 34 VDC (24 VDC Nominal)**
- Size (mm) : 22.5(W) X 101(H) X 119(D)

8 / 16 Channel Wall-Mount Analog Input Modules MODBUS over RS485 Serial Interface, Mains Operated

CIM Plus - 8 / 16

- **8 or 16 Single-Ended Input Analog Channels**
- Each Channel Independently Configurable for Thermocouples, RTD Pt100, Volts, mV and mA (No Jumper Settings)
- RS485 Serial Interface (MODBUS / RTU Protocol) with Settable Slave ID, Baud Rate & Parity
- **Free PC Tool for Easy Configuration & Parameter Settings**
- **Free PC Software for Online Data Monitoring & Recording**
- **Fast Channel Update Rate : 250 mS per Channel**
- **16 Bit Sigma-Delta ADC ($\pm 32,768$ Counts)**
- Software Linearization for Thermocouple & RTD Inputs
- Automatic CJC for Thermocouple & LRC for RTD Input
- High Accuracy, High Resolution, High Stability
- 4 Programmable Alarms per Channel
- **Universal Supply Voltage : 85 to 264 VAC, 50/60 Hz**
- Mounting : Wall / DIN-Rail Enclosure, Sizes (mm) :
 - CIM Plus (8 Channel) : 115(W) X 131(L) X 52(H)
 - CIM Plus (16 Channel) : 115(W) X 208(L) X 52(H)



Process Monitoring & Data Acquisition Systems

4 / 8 / 12 / 16 Channel Temperature / Process Scanner
with FREE Data Logging PC Software

Scanex / Scanex Plus

Scanex Plus
Universal Process Inputs



Scanex
Universal Temperature Inputs



**Free
PC Software**



Scanex / Scanex Plus Features

- 4, 8, 12 & 16 Channel Versions
- Universal Inputs for each Channel (No Jumper Settings)
 - Scanex** : Thermocouples & RTD Pt100
 - Scanex Plus** : Thermocouples, RTD Pt100, mA, mV, V
- **Fast Channel Update Rate : 0.25 Sec. per Channel**
- **Auto / Manual Display Scan Mode**
- Zero Offset Adjustment for Each Channel
- **Monitoring of Min/Max Process Values**
- Programmable Display Units (39) & Resolution for Each Channel
- **4 Programable Alarms for Each Channel**
- 4 Common Alarm Relay Outputs (1 per Soft Alarm) **OR** Up to 16 Independent Alarm Relay Outputs (1 per Channel)
- Alarm Status LEDs & Front Panel Acknowledge Key
- RS485 MODBUS/RTU Serial Communication Port
- Universal Supply Voltage : 85~264 VAC, 50/60 Hz
- Size (mm) : 96(H) X 192(W) X 100(D)

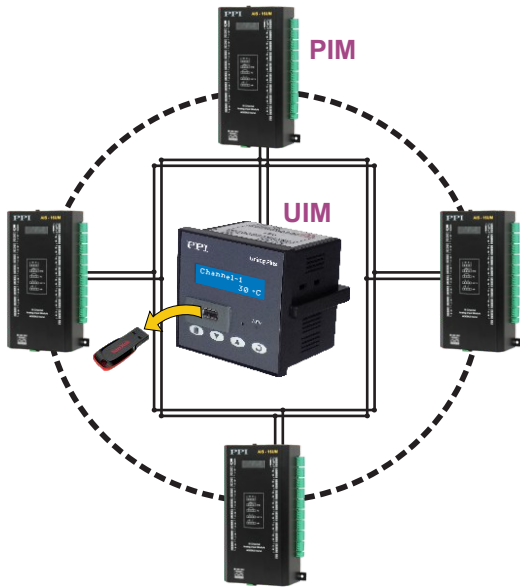
PC Software (ProLog) Features

- **Supports Multiple Units**
- Auto Startup of Software on PC Power up
- Programmable Channel Naming & Grouping
- Online Data Display in Tabular & Graphical Forms with Alarm Indications
- **Multi-Level Password Protected Access**
- Programmable Logging Interval
- Manual and Auto backup Facility with Archiving
- Data Log Reports for User Selected Parameters & Channels with Configurable Title, Header & Footer
- Selectable Date-Time Format in Reports
- **Data Log Report, Alarm Log Report, History Graph & Audit Trail Report in PDF & EXCEL Formats**
- **Audit Trail History of Critical Events & User Actions**

Process Data Recording Systems

Universal Process Data Loggers with USB Port for Data Transfer to PC via Pen-Drive

UniLog / UniLog Plus



- Data Logging System Comprises a Central **User Interface Module (UIM)** & One or More 8/16 Channel **Process Interface Modules (PIM)**
- **Universal Input for Each Channel (Thermocouple / RTD / mV / V / mA)**
- Fixed Channels (8 or 16) or Expandable (Up to 128 Channels)
- **User Programmable Name for Each Channel (Up to 16 Characters)**
- **User Programmable Display Units for Each Channel**
- Auto / Manual Scan Mode with Settable Scan Time
- Recording of Process Values & Alarm Status with Date / Time Stamp
- Continuous / Time Slot (Batch) Recording Mode
- Programmable Recording Interval
- **Huge Storage Capacity (2 GB Memory, Approx. 38,56,000 Records)**
- **Direct Data Transfer to PC via Pen-Drive (Memory Stick)**
- **CSV (Comma Separated Values) formatted Records Facilitates direct view in EXCEL Sheet**

Universal Process Data Loggers with PC Software

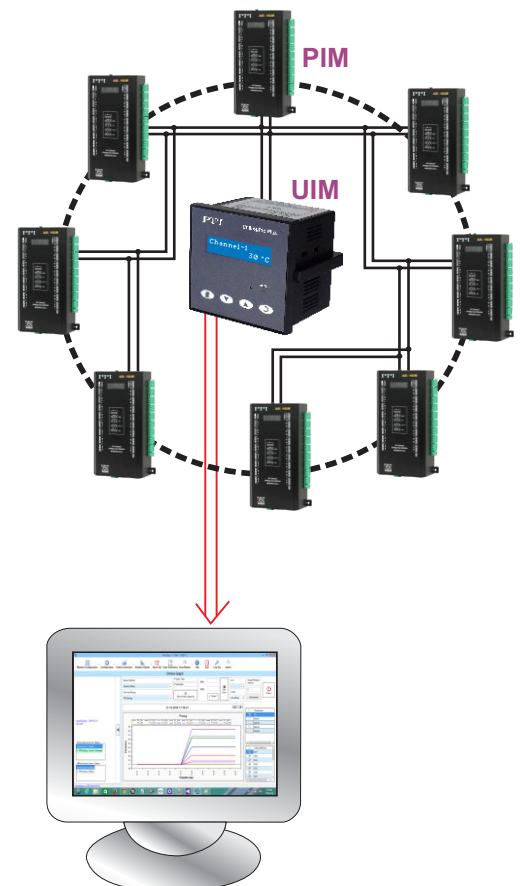
UniLog Pro / UniLog Pro Plus

Data Logging Unit Features

- Data Logging System Comprises a Central **User Interface Module (UIM)** & One or More 8/16 Channel **Process Interface Modules (PIM)**
- **Universal Input for Each Channel (Thermocouple / RTD / mV / V / mA)**
- Fixed Channels (8 or 16) or Expandable (Up to 128 Channels)
- **User Programmable Name & Display Units for Each Channel**
- Continuous / Time Slot (Batch) Recording
- Recording of Process Values & Alarm Status with Date / Time Stamp
- **Event Generated Records : Alarm Toggle, RTC Change, Recording Interval Change, End-of-Batch & Power-On**
- **Huge Storage Capacity (2 GB Memory, Approx. 38,56,000 Records)**

PC Software (ProLog) Features

- **Supports Multiple Data Logging Units**
- Programmable Channel Naming & Grouping
- Online Data Display in Tabular & Graphical Forms with Alarm Indications
- **Multi-Level Password Protected Access**
- Auto Periodic Downloading of Off-Line Records from Data Logging Unit
- Manual and Auto backup Facility with Archiving
- Data Log Reports for User Selected Parameters & Channels with Configurable Title, Header & Footer
- **Data Log Report, Alarm Log Report, History Graph & Audit Trail Report in PDF & EXCEL Formats**
- **Audit Trail History of Critical Events & User Actions**



Process Data Recording Systems

Universal 4 / 8 Channel Data Logger with PC / Pen-Drive / Printer Interface

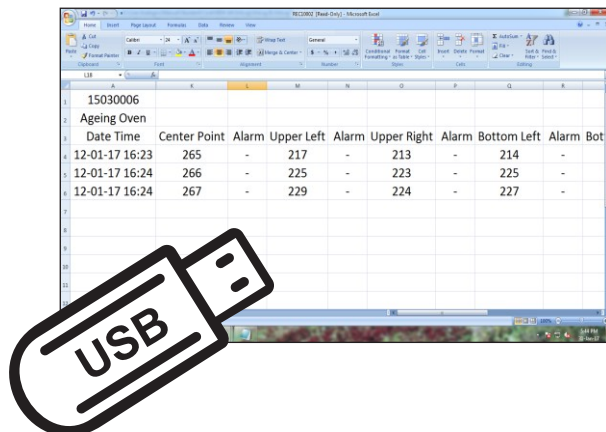
ScanLog

21 CFR Part 11
Compliant
Software

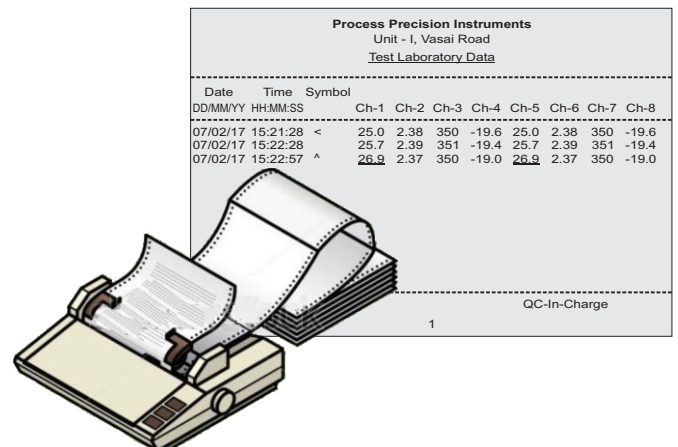
PC Interface



Pen Drive Interface



Printer Interface

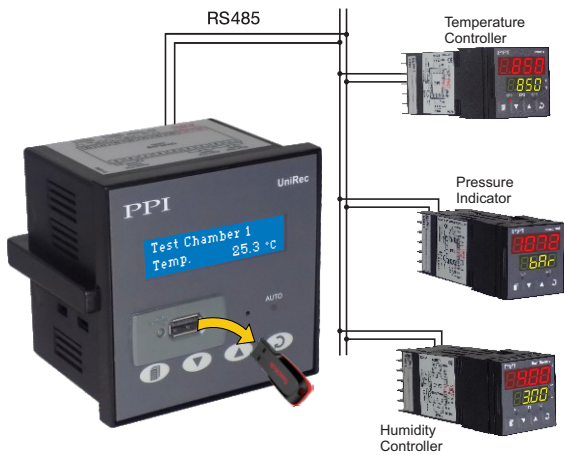


- 160 X 80 Monochrome Graphic Display & 6 Tactile Keys
- 4 / 8 Universal Analog Channels
- **Each Channel Independently Configurable for Thermocouples, RTD Pt100, Volts, mV & mA (No Jumper Settings)**
- Fast Channel Update Rate : 250 mS per Channel
- User Assigned Channel Names for Easy PV Identification
- Each Channel with Up to 4 Programmable Soft Alarms
- Optional, 4 Common Relay Outputs for Alarms
- 1 or 2 Excitation Voltage Outputs : 5V or 24V (Isolated)
- **Huge Storage Capacity : Appx. 38,56,000 Records**
- **Date / Time Stamped Process Value (PV) & Alarm Status Recording for Each Channel**
- Continuous or Batch Recording Mode
- Programmable Recording Interval
- **Event Generated Records : Power-up, Alarm Toggle, RTC / Recording Interval Changed**
- **Free 21 CFR Part 11 Compliant Software with PC Interface Version**
- **PC Configurable Header / Footer for Printer Interface Version**
- **Easy Data Transfer to PC in Excel Format for Pen-Drive Version with PC Software for Graphs & Report Generation**
- Supply Voltage : 85 ~ 264VAC, 50/60 Hz
- Size (mm) : 80(H) X 160(W) X 144(D)

Process Data Recording Systems

Data Recorder for Indicators & Controllers with Data Transfer to PC via Pen-Drive

UniRec



- **Fetches & Records PV Data from a Range of PPI's Widely used Process Indicators & Controllers**
- **Supports Multiple Indicators / Controllers (Any Mix of Models)**
- 2 Rows of 16 Characters LCD Display
- User Programmable Name for Each Station
- Periodic Recording of PV & Alarm Status with Date / Time Stamps
- Continuous / Time Slot (Batch) Recording Mode
- Programmable Recording Interval
- **Huge Storage Capacity (2 GB Memory, Approx. 38,56,000 Records)**
- **Direct Data Transfer to PC via Pen-Drive (Memory Stick)**
- **CSV (Comma Separated Values) formatted Records Facilitates Direct View in EXCEL Sheet**
- Supply Voltage : 85 ~ 264VAC, 50/60 Hz
- Size (mm) : 96(H) X 96(W) X 65(D)

Data Recorder for Indicators & Controllers with PC Software

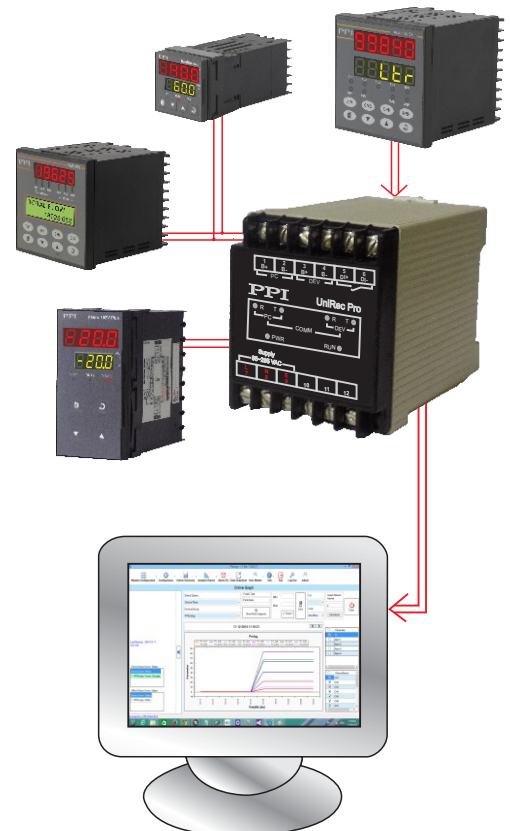
UniRec Pro

Data Logging Unit Features

- **Fetches & Records PV Data from a Range of PPI's Widely used Process Indicators & Controllers**
- **Supports Multiple Indicators / Controllers (Any Mix of Models)**
- Periodic (User settable interval) Recording of PV and Alarm Status
- **Huge Storage Capacity (2 GB Memory, Approx. 38,56,000 Records)**
- Supply Voltage : 85 ~ 264VAC, 50/60 Hz
- Size (mm) : 70(H) X 60(W) X 110(D)

PC Software (C-Log) Features

- **Supports Multiple Data Logging Units**
- Programmable Channel Naming & Grouping
- Online Data Display in Tabular & Graphical Forms with Alarm Indications
- **Multi-Level Password Protected Access**
- Auto Periodic Downloading of Off-Line Records from Data Logging Unit
- Manual and Auto backup Facility with Archiving
- Data Log Reports for User Selected Parameters & Channels with Configurable Title, Header & Footer
- **Data Log Report, Alarm Log Report, History Graph & Audit Trail Report in PDF & EXCEL Formats**
- **Audit Trail History of Critical Events & User Actions**



Temperature Transmitters

Fixed RTD Pt100 Input, Head / DIN-Rail Mount, Simplex 2-Wire, RTD Pt100 Temperature Transmitters

TXR-01-H / TXR-01-D



Head Mount
TXR-01-H



DIN-Rail Mount
TXR-01-D

- **Fixed RTD Pt100 Input**
3-Wire (with lead wire Compensation)
2-Wire (without lead wire Compensation)
- **Fixed Standard Ranges**

-100°C to +100°C	0°C to +100°C
-50°C to +50°C	0°C to +150°C
-50°C to +150°C	0°C to +200°C
-50°C to +200°C	0°C to +400°C
- **Customized Ranges Available on Request**
- **Supply Voltage : 12 to 36 VDC (24 VDC Nominal)**
- **4 to 20 mA Output, Non-Isolated**
- **Trimmers for Zero & Span Adjustments**

Programmable Head / DIN-Rail Mount, Simplex 2-Wire, Universal Temperature Transmitters

TXU-01-H / TXU-01-D

Free Configuration Tool

Universal Temperature Transmitter Configuration Tool

Models : TXU-01-H & TXU-01-D

COM PORT

COM5

Edit Configuration

Input Type

RTD Pt100 [-199 to 600°C]

Range Low

0

Corresponds to 4mA output

Range High

400

Corresponds to 20mA output

Zero Offset

0

Settable within -100 to +100°C

Burn-out Current

☒ 24mA
 ☐ 3.7mA

Apply

Cancel

Log

Configuration read successfully...



DIN-Rail Mount
TXU-01-D



Head Mount
TXU-01-H

Version 1

- RTD Input
- Programmable Temperature Ranges

Version 2

- Programmable Input RTD Pt100, J, K
- Programmable Temperature Ranges

Version 3

- Programmable Input RTD Pt100, J, K, R, S, T, B, N
- Programmable Temperature Ranges

Temperature Sensors - RTDs & Thermocouples

Protection Head & Transition Joint Assemblies

Thermocouples & RTDs

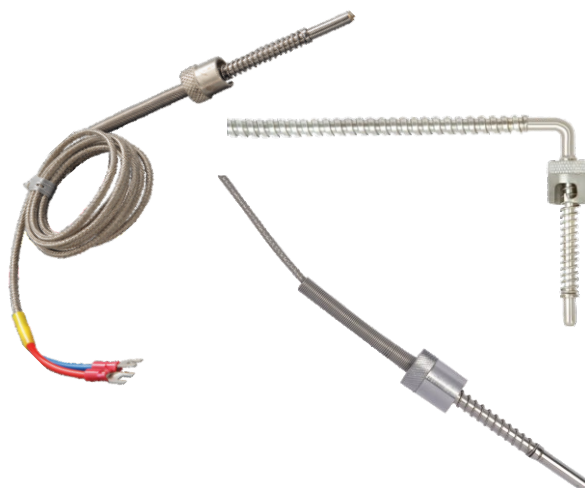


- Suitable for Non-Corrosive / Non-Acidic Applications
- Mineral Insulated for Superior-Response & High-Temperature Applications
- Various Thermocouple Element Types : J, K, T, R, S, etc.
- Various RTD Element Types : Pt100, Pt500, Pt1000, Cu50, Ni120, etc.
- Grounded / Ungrounded Thermocouple Junctions
- Simplex / Duplex Configurations
- Available Sheath Materials : SS 304, SS 316, Inconel 600, HRS 446, Hahtalloy, etc.
- Various Sheath Diameters & Stem Lengths
- Various Mountings : SS / Al Flanges, Fixed / Adjustable Compression Fittings, etc.
- **Protection Head Termination**
Screw Type Terminals on Ceramic Block inside Weather/Flame-Proof Head
- **Transition Joint Termination**
Variety of Cable Types : PVC/PVC, PTFE/PTFE, PTFE/PTFE/SS Braiding, FG/FG/SS Braiding, etc.

Bayonet Assemblies

Thermocouples & RTDs

- For Barrel & Die Temperature Sensing in Plastics Industries
- J, K, RTD Pt100 Types
- Fixed / Adjustable Types
- Straight / Bent (45° / 90°) Constructions
- Integral FG/FG/SS Braided Cable in Standard / Custom Lengths
- ¼" BSP or ½" BSW Process Connections



Washer Assemblies

Thermocouples & RTDs



- For Flat Surface Temperature Sensing in Packaging & Rubber-Moulding Machines
- J, K, RTD Pt100 Types
- Available for both Fixed & Moving Sealing Plates
- Standard Washer Size : ¼" ID X ½" OD X 1.5mm Thick
- Integral FG/FG/SS Braided Cable in Standard / Custom Lengths

Upcoming Products

**DIN-Rail Mount,
Single/Dual Channel Process Modules
MODBUS over RS485 Serial Interface**

DRC100 / DRC200



- Single or Dual Independent Process Channels
- Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- Programmable Range / Resolution for DC Linear Inputs
- Programmable Digital Filter & Zero Offset
- 32 Point User Defined Linearization for DC Linear Input
- 2 Programmable Alarms with Digital Outputs (12V @ 30mA Pulse)
- Retransmission Output (0/4-20 mA)
- Size (mm) : 22.5(W) X 101(H) X 119(D)

**DIN-Rail Mount,
Universal Single Loop Process Controller
MODBUS over RS485 Serial Interface**

DRC102



- Universal Input (Thermocouples, RTD Pt100, DC mA / mV / V)
- Programmable Digital Filter & Zero Offset
- Programmable Self Tune PID / On-Off / Pulsed On-Off Control
- Auto / Manual Control with Bumpless Transfer
- Uni-Directional / Bi-Directional Control
- User Programmable Digital (12V @ 30mA Pulse) or Analog (DC Voltage / Current) Control Outputs
- In-built Free Formable 16 Segments Ramp / Soak Profile
- Auxiliary Control Set Point
- 2 Programmable Alarms with Digital (12V @ 30mA Pulse) Outputs
- Size (mm) : 22.5(W) X 101(H) X 119(D)

Flameproof / Weatherproof Products

**Most Products Available in
FPW Series**

- **Flameproof Certified Enclosure**
Suitable for Gas Group IIA & IIB, As Per IS 2148
- **Weatherproof Certified Enclosure**
As Per IP-55 of IS 2147

