

PID & PROCESS CONTROLLERS



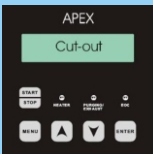
- ◆ 3 +3 Digit PID Temperature Controllers.
- ◆ 4+ 4 Digit PID Temperature Controllers.
- ◆ Universal input PID Temperature Controllers.
- ◆ Universal input PID Temperature Controllers with Bar graph display.
- ◆ DIN rail mounting universal input, PID Temperature Controllers, programmable through hand held display.
- ◆ PC interface, interface with paperless recorder, HMI or Data loggers.
- ◆ Sizes: 48 x 48 mm, 72 x 72 mm, 48 (w) x 96 (H) mm, 96 x 96 mm.

PROCESS INDICATORS, VOLTMETERS & AMMETERS



- ◆ 4 Digit Single Display or 4 + 4 Digit Display.
- ◆ Universal input.
- ◆ Modular Construction with slots for Alarm Cards, 4-20 mA retransmission card, Transmitter power supply card, 0-5 A card, 0-500 VAC card and communication card.
- ◆ DIN rail mounting version programmable through handheld display.
- ◆ Interface with PC, paperless recorder, HMI or Data loggers.

SPECIAL CONTROLLERS FOR AUTOCLAVE, BOD, OVENS & FREEZING CHAMBERS



- ◆ Semi automatic Autoclave Controllers with PID control & soak time settings & end of soak strategies.
- ◆ Fully Automatic Autoclave controllers with LCD display, PID control, purging/exhaust output and low water level input.
- ◆ Programmable BOD/Oven controllers with PID control, gap programming, settable time delay for compressor, soak timer & calibration offset.
- ◆ Data logger facility through separate 1-6 channel, Data logger with printer output + PC interface.

TIMERS, COUNTERS, RPM, MPM, FREQUENCY METER



- ◆ Programmable instruments for Time, Count, RPM, MPM, Frequency, Length and other parameters.
- ◆ Accepts PNP-NO, NPN-NO & potential free inputs.
- ◆ Potential free relay outputs as per program.
- ◆ Remote reset and start/stop inputs.

TOUCH SCREEN PAPERLESS RECORDER CUM CONTROLLER



- ◆ 6, 12, 16 and 30 channels with 2GB memory.
- ◆ Touch screen user interface with Indicators or Controllers, PID controllers, Scanners, Flow totalizers and I/O units on RS 485 bus.
- ◆ Better solution than HMI or Paper Recorders.
- ◆ Data Portability in Excel via Pen drive.

SCANNERS & DATA LOGGERS

- ◆ 2, 4, 6, 8 & 16 channel Instruments.
- ◆ Mixed inputs possible.
- ◆ Outputs for Alarm, Transmitter power supply, PV retransmission, RS 485 communication Output.
- ◆ Basic PC software, advanced PC software, PC software with 21CFR compliance.
- ◆ Direct Printer output available.



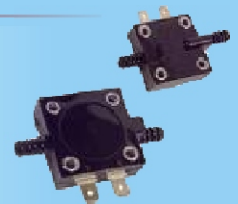
THYRISTOR UNITS

- ◆ Ready to use.
- ◆ Single phase 30A & 50 A.
- ◆ Three phase 50A, 100A, 160A, 300A 600A & 1200A units.
- ◆ Accepts 4-20 mA and 0-10 Vdc inputs.
- ◆ Phase angle firing output.
- ◆ Semiconductor fuse protection up to 100A. Overload and short circuit protection on 160A & above.



PRESSURE SWITCHES

- ◆ Pressure switches for water and air application. .25 m bar 4 bar with field adjustable set point.
- ◆ Differential pressure switches.
- ◆ Level switches: Magnetic, Float, Capacitive & Conductive.
- ◆ Vacuum switches.



ISOLATORS & CONVERTERS

- ◆ Single channel & Dual channel models.
- ◆ Provides signal conversion and isolation. Use for signal conversion, isolation and as DIN rail mounted temperature Transmitter.
- ◆ Universal input.
- ◆ Outputs for retransmission, Rs485 & relay.



INFRARED THERMOMETERS

- ◆ Portable Thermometers.
- ◆ Portable Thermal imagers.
- ◆ Non Contact temperature sensors.
- ◆ With DC linear/thermocouple outputs.



FLOWMETERS & ROTAMETERS

- ◆ Electromagnetic full bore flow meters with local display for rate of flow & total flow. Size: ½ inch- 6 inch.
- ◆ Electromagnetic insertion flow meters.
- ◆ Turbine flow meters.
- ◆ Acrylic, Glass tube and Metal Rotameters.
- ◆ Variety of flow Tantalizers in LED and LCD display with or without pressure compensation.

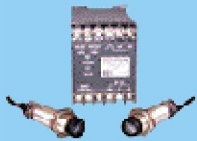


TRANSMITTERS & TRANSDUCERS



- ◆ Temperature Transmitters.
- ◆ Pressure Transmitters.
- ◆ Vacuum Transmitters.
- ◆ Differential Pressure Transmitters.
- ◆ Velocity Transmitters.
- ◆ Transducers for Current, Voltage, KW,PF, Frequency etc.
- ◆ Level Transmitters.
- ◆ CO2 Transmitters.
- ◆ CO Transmitters.
- ◆ Gas Analysers.

POSITION SENSORS



- ◆ Inductive Proximity Switches-AC & DC 3 wire/ 2 wire.
- ◆ Through beam photoelectric switches.
- ◆ Diffuse beam photoelectric switches.
- ◆ Retroreflective photoelectric switches.
- ◆ Magnetic switches.
- ◆ Capacitive Switches.
- ◆ Linear Encoders.
- ◆ LVDT's.

THERMOCOUPLES & RTDs



- ◆ Thermocouple type J, K, R, S, T, B, E.
- ◆ RTD, Pt100, Pt500, Pt1000 class 'A' & B.
- ◆ Sheath material SS 304, SS316, SS 310, HRS 446, Cl, RCA 610, RCA 710, Titanium, Wrought Iron, Teflon coated SS etc.
- ◆ Transition joint, head type, bayonet type and male / female connector type assemblies.
- ◆ Thermowells in SS 316, SS 310 MS HRS 446. Titanium in welded and Bar stock constructions.
- ◆ Process fittings in SS316 fixed type & ACF Male Fitting.
- ◆ Special thermocouples for Aluminum bath.

SOLID STATE RELAYS

- ◆ Single Phase and three phase versions.
- ◆ DC-AC, AC-AC and DC-DC versions.
- ◆ Phase angle firing with analogue input of 4-20 mA or 0-10VDC.
- ◆ Solid state voltage regulator- Phase angle by pot.



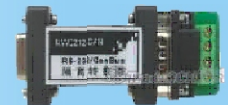
THERMOCOUPLE, RTD & SIGNAL CABLES

- ◆ Original cable for thermocouple type J/K/R/S/T, RTD Pt100 & instrumentation Signal cables.
- ◆ Sheath material PVC/PVC, PVC/PVC/SS,Fg/Fg, Fg/Fg/SS, Fg/Fg/ASB, Teflon/Teflon, Teflon/Teflon/SS etc.
- ◆ Compensating cables.
- ◆ Single core, Dual core & Multicore cables available in all diameters.



COMMUNICATION CONVERTERS

- ◆ RS 232 USB, Converters.
- ◆ RS 485 USB, Converters.
- ◆ RS 485 RS 232, Converters.
- ◆ RS232/RS485 Repeaters.
- ◆ Ethernet Converters.
- ◆ Fiber optic Converters.
- ◆ TTL Converters.
- ◆ RS-232/RS-485/422 Hub.



ETHERNET CONVERTORS & SWITCHES



Series	Description
MT8110	Ethernet Media Converter.
M2	Rack mounted 10/100 Base Unmanaged Industrial Ethernet Switch.
M3	Din-rail mounted Ring-redundancy Unmanaged Industrial Ethernet Switch.
M5	Din-rail mounted Serial-managed Ring-redundancy Industrial Ethernet Switch.
M6	Din-rail mounted 10/100 Base Web-managed Industrial Ethernet Switch.
M6	Rack mounted 10/100 Base Web-managed Industrial Ethernet Switch.
M7	Din-rail mounted 1000 Base Web-managed Industrial Ethernet Switch.
M7	Rack mounted 1000 Base Web-managed Industrial Ethernet Switch (2/4x Gigabit Port).
M8	1000 Base Layer-3 Ethernet Switch.
MIEN6262	Web-managed Industrial Ethernet Switch with Series Port Server.
Embedded	Embedded Industrial Ethernet Switch (4 Models available).