PRODUCT GUIDE
SENSORS / CONTROLLERS / MOTION DEVICES / MEASURING INSTRUMENTS

FREE LIFETIME
Service & Solution*

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The invisible hand for a more convenient world
Autonics Sensors & Controllers
TK SERIES
High Accuracy PID Temperature Controllers

- 50ms high-speed sampling cycle and ±0.3% display accuracy
- Convenient parameter configuration (with DAQMaster software)
  - Parameter mask: hide unnecessary parameters to fit user applications
  - User parameter group: store frequently used parameters to parameter groups for quick configuration
- Various output models available for diverse applications
- Independent outputs for heating and cooling control with a single unit
- Automatic/manual control function
- Communication function: RS485 (Modbus RTU)

SYSTEM CONFIGURATION

- Temperature control for automobile parts injection molding

PRODUCT LINE-UP

Precise control, high-speed sampling cycle of 50 ms and RS485 communication
Multi-Channel Modular Temperature Controllers

**TM SERIES**

- Dual display for indication of PV and SV
- 100 ms high-speed sampling cycle and optimal temperature control
- Expansion and communication through side connectors. Additional power not required. Expandable up to 31 units (124 channels/62 channels)
- Independent outputs for heating and cooling control with a single unit
- Parameter configuration via PC (with USB or RS485 communication)
- Excellent readability with large display
- PV/SV deviation indicator
- Auto/manual defrost function
- Various delay functions for optimal cooling control: compressor start-up delay, restart delay, min. ON time, end defrost delay and evaporation-fan operation delay
- Input correction function
- Economical temperature controller with simple operation
- ON/OFF control and proportional control
- PV deviation indicator
- Various functions: input correction, offset correction, manual reset, heating/cooling operation, etc.

**FEATURES**

- Multi-channel (4-channel/2-channel) input, output control
- High-speed sampling cycle (4-channel: 100 ms / 2-channel: 50 ms)
- Expansion and communication through side connectors. Additional power not required. Expandable up to 31 units (124 channels/62 channels)
- Independent outputs for heating and cooling control with a single unit
- Parameter configuration via PC (with USB or RS485 communication)

**SYSTEM CONFIGURATION**

- Dedicated serial communication
- Comprehensive device management program DAQMaster
- External devices with RS485 connection support
- RS485 connection
- USB
- RS232
- DAQMaster
- Communication converter sold separately

**Economical Dual-Display PID Temperature Controllers**

**TCN SERIES**

**Economical Single-Display PID Temperature Controllers**

**TC SERIES**

**Freezing / Defrost Temperature Controllers**

**TC3YF SERIES**

**Simple Operation Temperature Controllers**

**TC3YT SERIES**

Simultaneous control of up to 31 units & 124 channels via RS485 communication
Indoor, Duct & Wall Mounting Type Temperature

Humidity Transducers

**THD Series**

**FEATURES**
- Compact design
- Built-in temp./humidity sensor
- 7 Segment LED Display (THD-DD/THD-WD)
- Various output modes: DC4-20mA, 1-5VDC, RS485 (Modbus RTU)
- Wide range of temp./humidity measurement: -19.9 to 60.0°C/0.0 to 99.9%RH
- Communication speed: 115200bps

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**Power Controller**

**SPC1 Series**

- Various and simple input specification
  - DC4-20mA, 1-5VDC, External 24VDC
  - External adjuster (1kΩ)
  - External contact (ON/OF)

- Various function
  - Out ADJ (Limit the output) function
  - Soft Start function (Except for ON/OFF control type)
  - Out display function
  - 50/60Hz automatic converting function

- Various control type by mode switches
  - Phase control type
  - Cycle control type (Zero cross)
  - ON/OFF control type (Zero cross)
Ultra-Compact Photoelectric Sensors

BTS SERIES

- Detection methods and minimum target size
  - Through-beam type (BTS1M): Ø2 mm
  - Retroreflective type (BTS200): Ø2 mm (at distance 100 mm)
  - Convergent reflective type (BTS15/BTS30): Ø0.15 mm (at distance 10 mm)
- Detecting distance may vary by environmental factors
- Stability indicator (green LED) and operation indicator (red LED)
- Stainless steel (SUS304) mounting brackets
- IP67 protection structure (IEC standard)

Ultra-Slim Photoelectric Sensors

BTF SERIES

- Detection methods and minimum target size
  - Through-beam type (BTF1M): Ø2 mm
  - Diffuse reflective type (BTF30): Ø0.2 mm (at distance 10 mm)
  - BGS reflective type (BTF15): Ø0.2 mm (at distance 10 mm)
  - Detecting distance may vary by environmental factors
- Stability indicator (green LED) and operation indicator (red LED)
- Stainless steel (SUS304) mounting brackets
- IP67 protection structure (IEC standard)

MST SERIES Retroreflective Tape

- Easily attach to curved surfaces or narrow spaces
- Can be cut for use depending on environment
- High retro-reflectivity per surface area

FEATURES

PRODUCT SIZE

BTS SERIES

- Through-beam type (Opaque materials >Ø2 mm)
- Retroreflective type (Ø2 mm at distance 100 mm)
- Convergent-reflective type (Ø0.15 mm at distance 10 mm)

BTF SERIES

- Through-beam type (Opaque materials >Ø2 mm)
- BGS-reflective type (Ø0.2 mm at distance 10 mm)
- Diffuse-reflective type (Ø0.2 mm at distance 10 mm)

MST SERIES

- MST-200-2 (200 x 200 mm)
- MST-100-5 (100 x 100 mm)
- MST-50-10 (50 x 50 mm)

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Compact / High Performance Photoelectric Sensors

BJ SERIES (Connector Type Available)

- Long sensing distance with high performance lens
- Compact size: W20 × H32 × L10.6 mm
- Built-in sensitivity adjuster (except BJG30-DDT)
- Mutual interference prevention function (except through-beam type)
- Stable detection of transparent objects [LCD, PDP, glass etc] (BJG30-DDT)

* M8 Connector (Sold separately)

**FEATURES**

<table>
<thead>
<tr>
<th>Connector Pin No.</th>
<th>Cable color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brown</td>
<td>Power Source (+V)</td>
</tr>
<tr>
<td>2</td>
<td>White</td>
<td>N.C.</td>
</tr>
<tr>
<td>3</td>
<td>Blue</td>
<td>Power Source (-V)</td>
</tr>
<tr>
<td>4</td>
<td>Black</td>
<td>Output</td>
</tr>
</tbody>
</table>

* For through-beam type emitters, terminal 1, 2, 3 and 4 are NC (Not Connected) terminals.

**APPLICATION**

- Check filling status of products during packaging process of medical supplies

Presence can be detected by changing the sensing target distance using the sensitivity adjuster.

**Compact AC/ DC Photoelectric Sensors**

BEN SERIES

- Detection of automobile entry and exit

**APPLICATION**

- Detection of automobile entry and exit

**FEATURES**

- Compact size with universal voltage
- LED status indicators (operation: red / stability: green)
- Light ON / Dark ON switch
- Custom-built IC provides high reliability

**APPLICATION**

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**FEATURES**

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- LED status indicators (operation: red / stability: green)
- Light ON / Dark ON switch
- Custom-built IC provides high reliability

**APPLICATION**

- Detection of automobile entry and exit
**FEATUR ES**
- Presence detection of liquid in transparent pipes (Ø6 - 13 mm: up to 1 mm thick)
- Compact size: W23 x H14 x L13 mm
- Light ON/Dark ON switch
- LED status indicators
- IP66 protection structure (IEC standard)

**APPLICATION**
- Check presence of cleaning fluid in cleaning fluid storage of semiconductor equipment

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**Ø18mm Cylindrical Photoelectric Sensors**

**BR SERIES** (Connector Type Available)

**FEATURES**
- Operation mode indicator (green)
- Operation indicator (red)
- Protection bracket for Ø13 mm pipes (sold separately)
- Operation mode indicator (green)

**APPLICATION**
- Detection of cargo and carriers in an automated warehouse system

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**NEW Line-UP**
Easier wiring and maintenance with connector types

**PRODUCT TYPES**
- Cable type
- Connector type
  - Connector cable (sold separately)
- *Available in plastic and metal casing
Dual Digital Display Fiber Optic Amplifiers

**BF5 Series**

- Dual-display for indication of PV and SV (BF5-D)
- 5 response speed settings (50µs, 150µs, 500µs, 4ms, 10ms)
- Simple sensitivity adjustment
- High-speed detection of up to 20,000 counts per second
- Adjacent mounting of up to 8 units with mutual interference prevention

**FEATURES**

- Various cable head types (circular type, flat type, perpendicular type)
- Various sensing directions (top/side/flat/top+side/right angle)
- Various sensing modes (through beam, diffuse reflective, convergent reflective)
- Integrated brackets (FTL Series)
- Adjustable sensing direction (FTF Series)

Diverse Line-Up of Fiber Optic Cables

**FD/FT/FL/GD/GT Series**

Area Sensors / Picking Sensors

**BW/BWP/BWC/BWPK Series**

- **BW Series**
  - General Purpose Area Sensors
  - Long distance sensing (up to 7 m)
  - Economical, reliable, with diverse line-up

- **BWC Series**
  - Cross-Beam Area Sensors
  - 3-point cross-beam type area sensors
  - Stable detection in bright environments (100,000lx)

- **BWP Series**
  - Slim Sized Area Sensors
  - Slim body (13 mm) with Fresnel lens
  - Rapid response time (under 7 ms)

- **BWPK Series**
  - Compact Picking Sensors
  - Slim body (10 mm) with Fresnel lens
  - Highly visible job indicators
**PRODUCT TYPES**

- Cable connector type PRDW(T)
- Cable type PRD(T)
- Spatter resistant type PRDA(T)

**FEATURES**

- Customized IC with high noise resistance
- Simple, economical, durable, and reliable
- LED status indicator (red)
- IP67 protection structure (IEC standard)

**APPLICATION**

- Detection of engine parts during automobile engine manufacturing processes

**PROXIMITY SENSORS**

**PRD SERIES**

(Connector Type Available)

**FEATURES**

- Simplifies complicated wiring work

**Sensor Distribution Box**

**PT SERIES**

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Miniature Incremental Rotary Encoders

E15S/E18S E20 SERIES

FEATURES
- Ideal for installation in tight spaces (Sizes: Ø15 mm, Ø18 mm, Ø20 mm)
- Small moment of inertia

(Except E15S)

Ø58mm Diameter Absolute Rotary Encoders

EP58 SERIES

FEATURES
- Various mounting surface types and brackets available
- Various models by output code (BCD, Binary, Gray)
- Various resolutions available (720, 360, 180, 90, 45, 1024, 512, 256, 128, 64)

APPLICATION
- Position control of photoconductive drum in a copy machine
**FEATURES**

- High display resolution of 1/2000
- Auto shift function: stable output possible regardless of initial pressure change
- One-touch connector type for easy maintenance
- Zero-point adjustment function, peak monitoring function, and chattering prevention function

**PRODUCT TYPES**

- **Fluid type**
  - Cable type
  - Panel mounting with bracket (PSO-B02, Sold separately)

- **Pneumatic type**
  - Connector type
  - Easy maintenance connector type (PSO-C01, 2m)

**APPLICATION**

- Pressure measurement of compact press equipment (fluid pressure type)
COUNTERS / TIMERS

Programmable Counter / Timers

CT SERIES

FEATURES
- 6-digit (0.00001 to 999999)/4-digit (0.001 to 9999) pre-scale values
- Built-in Modbus communication function (communication models)
- Configurable one-shot output time (0.01 to 99.99 sec): 10 ms increments
- Configurable counting start point (initial value)
- Counter Up-1/Up-2/Down-1/Down-2 input modes

APPLICATION
- Counting of packing material during bottle filling and bottle capping processes

Compact Digital Weekly / Yearly Timer

LE365S-41

FEATURES
- Time configuration and control in weekly / yearly units
- Weekly day change operation, yearly holiday operation, season switching operation, auto daylight saving time function, etc.
- Independent control output (relay) built-in

APPLICATION
- Automatic daily • weekly • yearly ON/OFF control of streetlights
- Season switching mode applicable to seasonal time change of sunrise / sunset
**LA8N SERIES**  
**Compact 8-Digit LCD Backlight Counters**

**FEATURES**
- Voltage input and LCD backlight
- Subtraction and decimal point setting functions
- Built-in battery (does NOT require external power)
- IP66 protection structure (IEC standard)

**APPLICATION**
- Count and display the number of visitors

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**LE8N SERIES**  
**Compact 8-Digit LCD Backlight Timers**

**FEATURES**
- Voltage input and LCD backlight
- Added time specification functions
- Built-in battery (does NOT require external power)
- IP66 protection structure (IEC standard)

**APPLICATION**
- Life-cycle timer of laser marking machines

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**LE4S SERIES**  
**Digital LCD Backlight Timers**

**FEATURES**
- Compact, space saving design
- Configure set value and time range independently (using flicker or ON-OFF delay output mode)
- Configurable one-shot output time (0.01 to 99.99 sec)
- Configurable time range (9.999 sec): 0.001 sec increments

**APPLICATION**
- Display quantity and operating time of packaging line

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**ATS SERIES**  
**Compact, Multi-Functional Analog Timers**

**FEATURES**
- Simple operation and wide power range
- Various time range and output operation mode
- Configurable time range (0.1 sec to 30 hrs)
- Panel or DIN rail installation

**APPLICATION**
- Operation timer of rubber molding equipment
DeviceNet Digital Remote I/O

ARD SERIES

FEATURES
- Automatic communication speed recognition
- Network power voltage monitoring
- Additional expansion units
  - Standard terminal block type: connect up to 3 expansion units
  - Sensor connector type: connect up to 7 expansion units
  - I/O points can be expanded up to 64 points

APPLICATION
- Communication between devices during packaging processes
  - Proximity sensors for detection of product quantity
  - Photoelectric sensors for detection of product size
  - Graphic panels / logic panels for display of packaging process

Sensor Connectors

CNE SERIES

FEATURES
- Common Features
  - Significantly reduce installation work and time
  - Features high density mounting and contact pitch of 2 mm
  - Compatible with e-CON connectors
  - Each pin can hold up to 3A of current
- Wire Mount Plug/Socket
  - Compact and reliable one-touch type sensor connector
  - Wire mount plug/socket enables transit connection of wires
  - Visual guide on wire thicknesses with colorful covers
  - Visual guide on status of wire connection through translucent cover
- Board Mount Socket
  - Position contact point in mold to avoid electric shock or short-circuit

APPLICATION
- Sensors ↔ Expansion Cable ↔ PCB
- Sensors ↔ PLC
7” Wide TFT LCD monitor with True Color (16.7 million colors)
Analog touch type display
Data logger function: back up data from control devices

- Supports various interfaces: RS232C/RS422/Ethernet/USB

COMMON FEATURES
5-Phase Stepper Motors
**AK SERIES**

- Compact design and lightweight with high accuracy, speed, and torque
- Various types: shaft, hollow shaft, brake, geared, geared-brake, rotary actuator, rotary actuator-brake type
- Various frame sizes: 24, 42, 60, 85 mm

**FEATURES**

- Independent 2-axis controlling with high operating speed of up to 4Mpps
- 4 operation modes: scan, continuous, index, program mode
- Programmable up to 200 steps
- Control up to 32-axis (16 units) via RS485 serial communication (Modbus RTU)
- Bipolar constant current pentagon drive type
- Auto-current down and self-diagnosis function
- Microstep drive function (max. 250 divisions)
- Minimizes effects from external noise by photocoupler input insulation

**SYSTEM CONFIGURATION**

- Multi-axis controlling through RS485 connection

**SERIES**

- AK Series (Stepper motor)
- AK-G Series (Geared type)
- AK-RB Series (Rotary actuator + built-in brake type)
- AHK Series (Hollow shaft type)

**FEATURES**

- 16 Node x 2 Axis = 32 Axis
- Programmable up to 200 steps
- Control up to 32-axis (16 units) via RS485 serial communication (Modbus RTU)
- Independent 2-axis controlling with high operating speed of up to 4Mpps
- 4 operation modes: scan, continuous, index, program mode
- Programmable up to 200 steps

**5-Phase Stepper Motor Drivers**

**MD5 SERIES**

- (Except for MD5-ND14, MD5-HD14)

**FEATURES**

- Bipolar constant current pentagon drive type
- Auto-current down and self-diagnosis function
- Microstep drive function (max. 250 divisions)
- Minimizes effects from external noise by photocoupler input insulation

**2-Axis / Programmable Motion Controllers**

**PMC-2HSP/N SERIES**

- (Free loader program)
- (Converter module : sold separately)
- Expandable up to 16 units
DI N Rail Mount Switching Mode Power Supplies

**SPB SERIES**

**FEATURES**
- High power conversion efficiency (up to 92%)
- Minimized noise and ripple
- Slim and compact design
- Terminal protection cover
- Output voltage: 5VDC, 12VDC, 24VDC, 48VDC *
- Output power: 15W, 30W, 60W, 120W, 180W, 240W, 480W *
  *Output voltage and output power availability may differ by region

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High Reliability Solid State Relays

**SRS1/SRPH1/SR1/SRC1/SRH1 SERIES**

**SRS1**
- Detachable Heatsink Socket Type
- Easy maintenance with detachable heatsink

**SRPH1**
- Analog Input Type
- Slim and compact width

**SR1**
- Detachable Heatsink Type
- High heat dissipation efficiency

**SRC1**
- Slim Detachable Heatsink Type
- Phase control and cycle control with analog input

**SRH1**
- Integrated Heatsink Type
- Simple wiring and easy maintenance

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**FEATURES**
- Slim and compact design
- High dielctic strength: 4,000VAC (except SRS1)
- Ceramic board maximizes heat dissipation efficiency
- LED status indicators

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100mm Hybrid Recorders

**KRN100 SERIES**

**FEATURES**
- Paper / Paperless Recorder
- Data logger function / Can print from saved memory
- Graphic display : better visibility and easier settings
- Fast sampling rate of 25ms and 240mm/H recording

---

50mm Hybrid Recorders

**KRN50 SERIES**

**FEATURES**
- 50mm direct thermal printing
- Data logger function : Paperless recording
- PC parameter setting & real-time monitoring
- 2 channel synchronous recording : Graphic / Digital modes

---

3-Color LCD Isolated Converters

**CN-6000 SERIES**

**FEATURES**
- Multiple inputs : TC / RTD / mV / V / mA / Pulse
- Negative LCD for better visibility : 12 segments, 3 colors (Green/Red/Orange)
- Flexible input types & units
- Internal sensor power supply (24VDC)

---

High Speed Process Controllers

**KPN SERIES**

**FEATURES**
- 10x faster sampling compared to existing models (50ms)
- High luminance LED panel for better visibility
- PC configuration via USB or RS485 : using DAQMaster
- Slim size : 38% smaller in thickness

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Compact Digital Bar Graph Indicators

**KN-1000B SERIES**

**FEATURES**
- Smart function (18bit AD converter)
- Multi input signal (12 Thermo couples, RTD, mV, V, mA)
- Peak-hold : Memorizes & indicates the highest value
- Internal sensor power supply (24VDC)

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Color-Coded Multi-Functional Indicators

**KN-2000W SERIES**

**FEATURES**
- Max. display range : -19999-19999
- Multi input signals (12 Thermo couples, RTD, mV, V, mA)
- Auto color changing panels : Notifies errors & alarms
- Internal sensor power supply (24VDC)
Highly Durable and Compatible

**I/O TERMINAL BLOCKS**

- **AFL Series**
  - One-Push Screwless Type
  - Spring structure design provides even tightening and high vibration resistance.

- **AFR Series**
  - Rising Clamp Type
  - Rising clamp type provides easy and secure connections

- **AFS Series**
  - Standard Type
  - Compact interface terminal blocks with 7 mm terminal pitch

**Interface Terminal Blocks**

**SYSTEM CONFIGURATION**

**Sensor Connector Terminal Blocks**

- **AFE Series**

**Common Terminal Blocks**

- **ACS Series**

**Relay Terminal Blocks**

- **ABS Series**

**CJ SERIES**

Connector Transmission Cables

CJ Series cables are compatible with various PLCs, Servo and Controllers (Autonics, LSIS, Mitsubishi, etc). CJ Series cables are available in wide range of cable lengths, to increase user convenience and allow for application in diverse working environments.
## CONTROL SWITCHES / PILOT LAMPS / BUZZERS

**Superior Durability and Easy Handling**

**S / L / B SERIES**

<table>
<thead>
<tr>
<th>Ø22/25 Round/Square Push Button Switches</th>
<th>Ø30 Round/Square Push Button Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2PR Series</td>
<td>S3PR/S3PF/SQ3PFS Series</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Ø22/25 Selector Switches / S2SR Series</th>
<th>Ø30 Selector Switches / S3SF Series</th>
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<tbody>
<tr>
<td>S2KR/S3KF</td>
<td>SZTR</td>
<td>S2BR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø22/25 Dome/Horn/Flat Head Non-Flush Pilot Lights / L2RR Series</th>
<th>Ø30, Ø30 Flat Flush Pilot Lights / L3RF Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2RR/L3RF</td>
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**Emergency Switches / S2ER Series**

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**Magnetic/Piezo Buzzers / B2NB/B2PB Series**

<table>
<thead>
<tr>
<th>Magnetic/Piezo Buzzers / B2NB/B2PB Series</th>
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</table>

**Accessories**

- Switch contact blocks
- Switch enclosures
- Emergency switch nameplates
- Emergency switch protective shrouds
- Waterproof cap
- Locking handle for switches

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*Illuminated Type Available*
Fast & Accurate Digital Power Thyristor Units

**DPU SERIES**

- Precise feedback (static current/voltage/power) by measuring RMS value
- Phase control & Zero-cross cycle control (Fixed/Variable cycles)
- Remote monitoring & control: Modbus RTU protocol via RS485 communication
- Built-in customizable 6 digital inputs

High Reliability Pressure Transmitters

**TPS20 SERIES**

- Measure air, liquid, and vapor pressure and transmits 4-20mA analog signals
- Stainless steel diaphragm: High accuracy (±0.3% F.S.)
- Head Type/DIN Connector Type/Connector Cable Type
- Zero-point reset & span adjustment (Head Type)
Gauge & Absolute Pressure Transmitters

**KT-302H SERIES**

**FEATURES**
- HART Communications Protocol
- Flexible view: 330° display range
- Self-stabilization and filtering
- Excellent EMC performance
- Stainless steel diaphragm: ±0.2% accuracy

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Smart Pressure Transmitters

**PTF30 SERIES**

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Intelligent Temperature Transmitters

**KT-502H SERIES**

**FEATURES**
- Optimized for small to medium sized projects such as indoor heating, air conditioning, water and sewage, incinerators, etc.
- Increased noise resistance: minimizes effects from external factors
- Various functions: user input range, display range, output scale, digital filter, multi-display selection, error display, TUF (two-unit function), etc.

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**FEATURES**
- HART Communications Protocol
- Flexible view: 330° display range
- Various inputs:

<table>
<thead>
<tr>
<th>Various Inputs</th>
<th>RTD</th>
<th>Thermocouples</th>
<th>mV</th>
<th>Ω</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>2</td>
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</tbody>
</table>
SIGNAL LIGHTS

LED TOWER LIGHTS

PTE Series

PLD Series

PTD Series

SIGNAL LIGHTS

MS86L Series
(Dome Head Type)

MS115S Series

MS86L Series
(Low Head Type)

WARNING SIGNAL LIGHTS

AVG Series

ML Series

and more...
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Driving towards global leadership in the automation industry

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Autonics Corporation  www.autonics.com

Jayem Trade Pvt Ltd

Logitech Park", Plot no 7, Road no 10 EPIP, Whitefield
Bangalore – 560066

Phone:080-41353599/500
Email: sales@jayemtrade.in

Distributor

- Major products
  - Photoelectric Sensors • Fiber Optic sensors • Door Sensors • Door Side Sensors
  - Area Sensors • Proximity Sensors • Pressure Sensors • Connectors/Sockets
  - Rotary Encoders • Temperature Controllers • Temperature/Humidity Transducers
  - SSR/Power Controllers • Counters • Timers • Panel Motors • Sensor Controllers
  - Tachometer/Pulse(Rate) Meters • Display Units • Switching Mode Power Supplies
  - Stepper Motors / Drivers / Motion Controllers • I/O Terminal Blocks & Cables
  - Graphic/Logic Panels • Control Switches/Lamps/Buzzers • Field Network Devices
  - Laser Marking System(Fiber, CO2, Nd:YAG) • Laser Welding / Cutting System

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