

MONITORING & CONTROL SOLUTIONS

RELIABILITY

FLEXIBILITY

FAST DELIVERY

ENGINEERING SUPPORT

ONE STOP I/O SHOP



DISTRIBUTED I/O AND SIGNAL CONDITIONERS







Transmitters, Isolators, Splitters



Limit Alarms / Computation



I/O Modules



Experience counts:

especially when you are selecting an I/O partner. And with 60+ years of I/O experience, Acromag can help you to improve reliability, increase productivity and reduce your costs.























Depend on Acromag



Acromag: The I/O Leader

Acromag is a customer-driven manufacturer focused on developing process automation I/O products that provide the best long term value in the industry. Compare and you'll find that Acromag products offer an unmatched balance of price, performance, and features.

60+ Years of I/O Experience

Acromag has more than 60 years of measurement and control experience. Since 1957, we have delivered nearly a million units to thousands of customers around the globe for manufacturing, power, environmental, transportation, and military applications.

Top Quality and a 2-Year Warranty

We take every measure to guarantee you dependable operation and products that perform at or beyond their specifications. Our state-of-the-art manufacturing and military-grade components add an extra degree of ruggedness. Most products qualify for an extended 2-year warranty. And with ISO 9001/AS9100 certified quality control, you get full confidence.

All trademarks are the property of their respective owners.

Online Ordering

For your convenience, Acromag provides full product documentation and pricing information on our website. You can obtain quotes or even place your order directly on our website.

Fast Delivery from Stock

Most products can be shipped within 24 hours of receiving your order.

Special Services

We are happy to accommodate your special requirements and offer the following services:

- custom product development
- custom calibration
- source inspections, quality audits
- special shipping, documentation
- protective humiseal coating
- plastic and stainless steel tagging

Certification and Approvals

Many Acromag products carry globally recognized agency approvals and safety certifications.

- CE
- Ethernet conformance
- UL, cUL
- Modbus conformance
- ATEX
- Profibus certification
- CSA
- IECEx

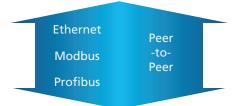
Industrial Input/Output Solutions







COMMUNICATION



NETWORK I/O & DATA ACQUISITION

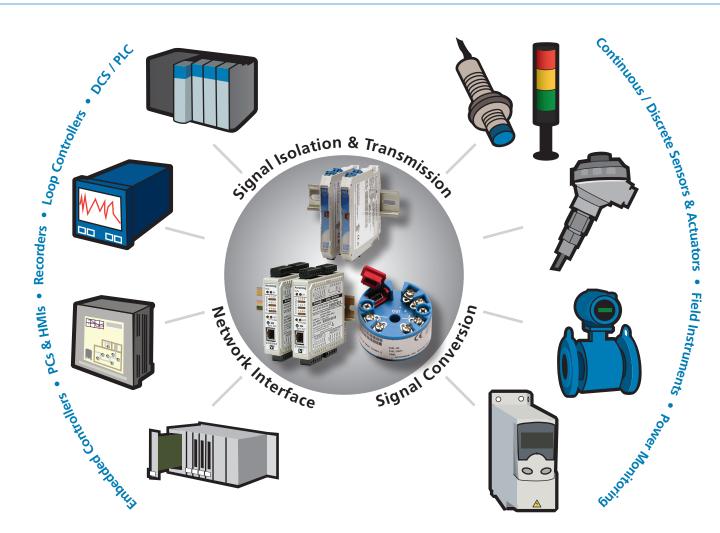


SIGNAL CONDITIONERS





Signal Interfacing Solutions



How Acromag I/O Is Used

Acromag I/O is ideal for a broad range of monitoring and control operations where controllers communicate with instrumentation on the plant floor or in the field.

Acromag Advantages

- Wide operating temperature ranges (up to -40 to 85C°).
- High resistance to RFI, EMI, surges, electrical transients.
- High-voltage isolation and built-in surge suppression.
- Easy to use and maintain.
- High channel density to save space.
- Large inventory of stock items for same day shipping.
- Special designs and custom services available.
- 2-year warranty available at no extra cost
- AS9100 and ISO 9001 certified quality management

Operation in All Locations

- Safe zones and hazardous locations (Zone 2).
- Explosion-proof locations (Zone 1).
- Approvals from CE, UL/cUL, FM, CSA, ATEX, IECEx.

Controller Interface

- PLCs, PACs, controllers
- DCS distributed control systems
- PCs, embedded computers, SCADA systems
- Operator interface terminals and remote terminal units

Continuous Sensors

- Temperature
- Flow
- Speed
- Position
- Pressure
- Level
- Weight / load
- Drives

Discrete Sensors and Switches

- Dry contacts
- PNP, NPN
- Solid-state
- Proximity
- Valves
- Lights, horns

Actuators and Analytical Instruments

- Drives, motors
- Power supplies
- Heaters, coolers
- Valves, positioners
- Displays, indicators
- Recorders, analyzers



Industries Served





Raw Materials Processing

These industries rely on Acromag process instruments for accurate and repeatable measurements from sensor signals.

- Chemical, petrochemical
- Metal, glass, ceramic
- Pulp, paper, textile



Factory Automation

Fast response times, high reliability, and proven compatibility with control networks make Acromag I/O popular for use on assembly lines.

- Food, beverage, pharmaceutical
- Automotive, electronic assembly
- Building automation, HVAC



Oil, Gas, and **Mining**

Built for operation in extreme environments, Acromag I/O reliably interfaces sensors to actuators and controllers.

- Exploration, extraction
- Production
- Distribution



OEM Machine Control

High channel density plus shock and vibration immunity help machine builders add more I/O to monitor and control their equipment.

- Semiconductor, lithography
- Boilers, furnaces, generators
- Test stands, industrial machinery



Power Generation

Able to resist noise and surges from high-voltage electrical sources, Acromag I/O delivers dependable data to plant control systems.

- Fossil fuels, hydroelectric, nuclear
- Solar, wind, geothermal
- Fuel cells, batteries



Defense, Security, and Aerospace

Acromag I/O finds a home in many military and security systems due to their ability to operate over wide temperature ranges.

- Simulators and trainers
- Ground / airborne / naval controls
- Surveillance systems



Water / **Wastewater**

Offering outstanding value and easy installation, Acromag I/O is the first choice of many municipalities to help manage their water systems.

- Municipal
- Industrial
- Desalinization
- Irrigation



Research and **Development**

When high-resolution and highaccuracy measurements are required, Acromag I/O ensures precise data collection.

- Test and measurement systems
- Data acquisition systems
- Scientific research
- Quality control/assurance









▶ Network I/O & Data Acquisition





www.acromag.com/ **BusWorksXT**

BusWorks® XT Series

High-performance, space-saving remote, analog and discrete I/O modules - with Xtra <u>Technology</u> - for Ethernet networks.

- Ethernet/IP, Profinet, Modbus TCP/IP, and i2o peer-to-peer communication
- Easy PC/Windows configuration via USB
- Redundant and bussed DC power



www.acromag.com/i2o

Peer-to-Peer Communication

Many Acromag I/O modules have i2o technology for "input-to-output" peer-to-peer over Ethernet.

- Automatically transmits analog or discrete I/O information between modules
- Wire-saver, mux/de-mux, splitter tasks



www.acromag.com/ BusWorks900

www.acromag.com/

EtherStax

BusWorks® 900 Series

A series of dependable, yet economical, remote analog and discrete I/O modules for Ethernet or RS485 networks.

- Ethernet/IP, Modbus TCP/IP, i2o peerto-peer, Modbus-RTU, and Profibus-DP communication
- Easy configuration using Internet browser or Windows software



www.acromag.com/microBlox

Channel-to-Channel Isolated I/O Modules

Ethernet-enabled panel mounted signal conditioners with BusWorks or EtherStax I/O.

- Connect uB backpanels to Acromag Ethernet I/O with DB25 cable
- Over 170 low-cost, high-isolation models
- Up to 1500V AC isolation per channel



High-density I/O blocks designed for highreliability operation in Ethernet networks.

- Modbus TCP/IP, UDP/IP, and i2o peer-topeer communication
- Up to 96 channels of discrete or analog I/O in a vertically-stackable unit with a small footprint
- Fast scan rates (below 1 millisecond)
- Redundant power and communication



www.acromag.com/ software-tools

Software Tools

- OPC, .NET, ActiveX, Visual Basic/C++
- Function libraries with C source code
- Compatible with Windows, Linux, VxWorks, QNX, OS-9, and other OSs

Ethernet Switches

- Unmanaged
- Gigabit fiber
- 10/100/1000 Ri45
- up to 8 ports

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Signal Conditioning Solutions







www.acromag.com/DT

DT230/330 Series

A high-performance line of programmable dual-channel transmitters.

- Easy configuration via USB with Windows software or Agility App™ for Android
- Wide variety of input, output, and power configurations



www.acromag.com/SP

SP230/330 Series

A high-performance line of signal splitters / duplicators offering precise scaling of I/O ranges.

- Easy configuration via USB with Windows software or Agility App for Android
- Wide variety of input, output, and power configurations



www.acromag.com/TT

TT230/330 Series

A high-performance line of thin transmitters and isolators offering great flexibility.

- Easy configuration via USB with Windows software or Agility App for Android
- Wide variety of input, output, and power configurations



www.acromag.com/ST130

ST130 Series

Low-cost, miniature head-mount (DIN Form B) transmitters that deliver outstanding accuracy, linearity and stability.

- Easy PC/Windows configuration via USB
- Inputs: temperature, voltage, ohmic
- Output: 4-20mA DC (sink)

microBlox® Series



www.acromag.com/600T

600T Series

Select from a broad line of isolators, splitters, and transmitters.

- Auto-configuration and self-ranging models for easy setup
- Wide variety of input, output, and power configurations



www.acromag.com/ microBlox

High-performance solution for interfacing

sensors and field devices with data acquisition systems.

- Bluetooth® wireless technology enabled
- User-configurable I/O ranges
- Alarm and input polling/trending capabilities



www.acromag.com/ IntelliPacks

IntelliPack® 800 Series

Intelligent, programmable series of transmitters, math modules, and alarms.

- PC configuration, push-button adjust
- Wide variety of input, output, and power configurations

Accessories and Services

- Panel meters, power supplies
- Mounting and wiring accessories
- Coatings, tags, certificates, drawings



Transmitters: DT230/330 Series



New DT230/330 Series Dual-Channel Programmable Transmitters

New Product Announcement

Acromag's new DT Series transmitters are designed to offer a cost-effective space-saving solution to interface a variety of process and sensor signals to your control systems. Each model supports several input ranges and can output a proportional 0/4-20mA, 0-10V, or +/-10V DC signals.

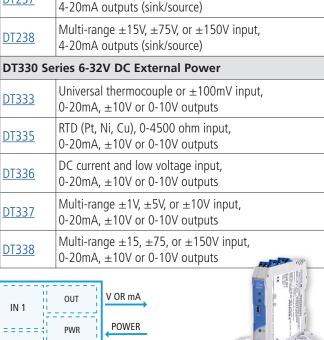
DT230/330 Advantages

- USB-programmable (allows easy selection of options) that is not possible with pots or jumpers)
- Dual unit saves space and reduces costs
- Signal splitter capability
- Selectable filtering levels
- Configurable output clamp levels (NAMUR)
- Removable, front-facing terminal blocks (simplify your wiring tasks)
- Rail power bus and redundancy
- Supports sink/source wiring
- -40 to 70°C operation
- CE compliant. UL/cUL Class I Division 2 and IECEx ATEX Zone 2 approvals pending.

DT230 Series					
mA, V, mV, TC, RTD	IN 1	OUT 1	4-20mA		
mA, V, mV, TC, RTD	IN 2	OUT 2	4-20mA		

DT330 Series mA, V, mV, TC, RTD mA, V, mV, TC, RTD

DT338 V OR mA OUT **POWER** PWR IN₂ V OR mA



2-Wire and 4-Wire Software-configurable

Universal thermocouple or ±100mV input,

DT230 Series 7-32V DC Loop/Local Power

4-20mA outputs (sink/source)

4-20mA outputs (sink/source)

4-20mA outputs (sink/source)

RTD (Pt, Ni, Cu), 0-4500 ohm input,

DC current and low voltage input,

Multi-range $\pm 1V$, $\pm 5V$, or $\pm 10V$ input,

Models Available

DT233

DT235

DT236

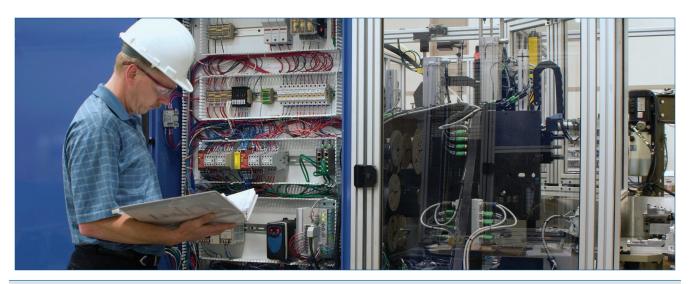
DT237

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Signal Splitters: SP230/330 Series





New SP230/330 Series Signal Splitters

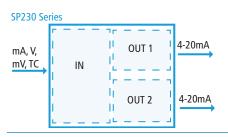
New Product Announcement

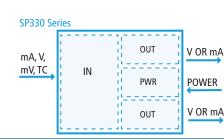
Acromag's new SP230/330 series of isolated signal splitters/duplicators are designed for easier installation and setup. Eight models, covering a broad range of sensor signals, provide dual 4-20mA outputs proportional to a single current, voltage or temperature input. A USB connection to a Windows® PC or Android® device enables simple, precise configuration of I/O ranges and a variety of operational settings with free software.

SP220/230 Splitter Advantages

- Easy configuration via USB with Windows® software or Agility™ app for Android®.
- Input scales independently at each output.
- User-selectable filtering (none, low, med, high).
- User-configurable output range clamp levels support NAMUR-compliant operation.
- High accuracy, linearity, stability, and reliability.
- Shock (25g) and vibration (4g) resistant.
- CE compliant. UL/cUL Class I Division 2 and IECEx ATEX Zone 2 approvals.

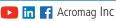
2-Wire and 4-Wire Software-configurable Models Available					
SP230 S	SP230 Series 7-32V DC Loop/Local Power				
<u>SP233</u>	Universal thermocouple or ±100mV input, 4-20mA outputs (sink/source)				
<u>SP236</u>	DC current and low voltage input, 4-20mA outputs (sink/source)				
<u>SP237</u>	Multi-range \pm 1V, \pm 5V, or \pm 10V input, 4-20mA outputs (sink/source)				
<u>SP238</u>	Multi-range ± 15 V, ± 75 V, or ± 150 V input, 4-20mA outputs (sink/source)				
SP330 Series 6-32V DC External Power					
<u>SP333</u>	Universal thermocouple or ±100mV input, 0-20mA, ±10V or 0-10V outputs				
<u>SP336</u>	DC current and low voltage input, 0-20mA, ±10V or 0-10V outputs				
<u>SP337</u>	Multi-range $\pm 1V$, $\pm 5V$, or $\pm 10V$ input, 0-20mA, $\pm 10V$ or 0-10V outputs				
<u>SP338</u>	Multi-range ± 15 , ± 75 , or ± 150 V input, 0-20mA, ± 10 V or 0-10V outputs				







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Innovative Signal Conditioning



MicroBlox® Series featuring Bluetooth® Wireless Technology

New Product Announcement

Acromag's microBlox® uB Series I/O modules offer a compact, high-performance solution for interfacing sensors and field devices with data acquisition systems. uB signal conditioning modules are ideal to isolate, filter, convert and amplify a wide variety of signal types for test, measurement, and control systems. Just plug uB modules into 4, 8, or 16-channel backpanels in any mix for a highdensity analog I/O interface. Channel-to-channel isolation provides optimal noise and surge protection from ground loops, spikes, and high common mode voltages.

microBlox I/O Modules Advantages

- Selection of 175 I/O modules with Bluetooth® wireless technology capability, fixed-range, and cost-saving commercial grade versions.
- User-configurable I/O ranges with smartphone or tablet.
- Input polling with trend charts in Android® or iOS® app.
- Alarm output function with setpoint and deadband.
- 1500V AC isolation field-to-host and channel-to-channel.
- Up to 0.05% accuracy and 130db CMR.
- Shock and vibration-resistant without screws.

User-configurable & Fixed I/O Range Models Available					
Input Modules					
<u>uB30/uB40</u>	± 10 mV to ± 100 mV input, 0-5V or ± 5 V output				
<u>uB31/uB41</u>	±1V to ±60V input, 0-5V or ±5V output				
<u>uB32</u>	0-20mA or 4-20mA DC input, 0-5V or ±5V output				
uB34/uB35	RTD input, 0-5V or ±5V output				
<u>uB37/47</u>	Thermocouple input, 0-5V or ±5V output				
<u>uB42</u>	2-wire transmitter (0-20mA) input, 0-5V or ±5V output				
<u>uB45</u>	0-50KHz input, 0-5V or ±5V output				
Output Mod	lules				
<u>uB39</u>	0-20mA or 4-20mA DC field output, ±5V host input				
<u>uB49</u>	0-10V or ±10V field output, ±10V host input				
Backpanels					
<u>uB04/uB04D</u>	4 channel uB backpanel, surface or DIN-rail mount				
<u>uB08/uB08D</u>	8 channel uB backpanel, panel or DIN-rail mount				
<u>uB16/uB16D</u>	16 channel uB backpanel, panel or DIN-rail mount				
Power Option	ons				
uBDC1	5V DC power module, 10-32V DC supply input				



Innovative Signal Conditioning





MicroBlox® Series Splitter and Combination Transmitter/Alarms

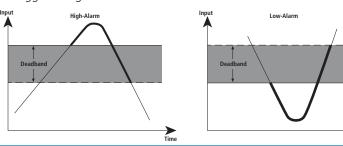
New microBlox® Transmitting Alarms

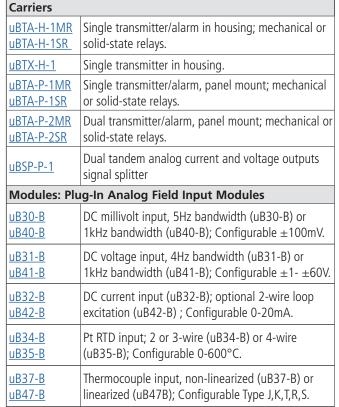
The uBTA carriers are used with Acromag's microBlox® signal conditioning modules to create powerful alarms that also provide a voltage/current transmitter output. The plug-in modules offer the convenience of wireless field programming on a smartphone or tablet.

The microBlox uB modules offer a space saving solution for isolating, monitoring, and converting sensor signals to interface with your data acquisition or control system. By inserting a uB input module into a single or dual channel carrier, you get a device with both alarm and transmitter capabilities. With a broad selection of uB input modules, you can monitor many different signal types by simply interchanging modules on the carrier.

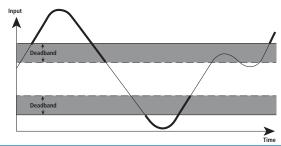
microBlox® Transmitting Alarms Advantages

- Single/dual alarms with two independent mechanical or solid-state relays, up to 5A switching.
- Transmitter output with 4-20mA and 0-5V signal ranges.
- Interchangeable input modules for measuring a wide variety of signal types.
- Easy configuration using Bluetooth® wireless technology.
- Rugged design for use in harsh environments.





microBlox® Transmitting Alarms Selection Guide



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in Acromag Inc



Signal Conditioning: microBlox® Series

Key Features & Benefits













Alarm Function

Wireless (-B) models support alarm setpoint/deadband control to drive 0 or 5V output.

Wireless Configuration

Easily set I/O scaling and alarms or poll inputs using Bluetooth® wireless technology with a smartphone or tablet using Acromag's Android[™] or iOS[®] app.



Flexible Power

5V power modules enables use of 10-32V supplies.

Mix-and-Match Modules

175 modules support a wide variety of input and output signal types.

Easy, Secure Mounting

Clip holds module tightly without screws for fast insertion/removal.



DB25 cable simplifies connection to DAQ systems.

Rugged, Over-molded Circuit

Superior shock, vibration, moisture, and dust protection.

High-Density Analog I/O

Up to 16 channels in a compact footprint.

High-performance

High-accuracy / high noise immunity.











Models with Bluetooth® wireless technology allow custom input and output ranges.

User-Programmable I/O Ranges



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Signal Conditioners: Agility™ APP



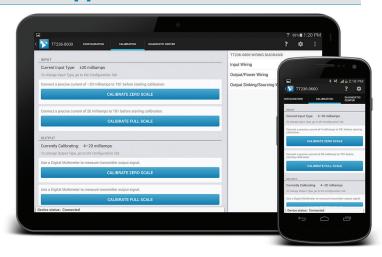
Acromag Agility™ Config Tool Mobile Application

The Agility™ Config tool is a mobile application that allows easy setup and configuration of Acromag SP Series splitters, DT Series and TT Series transmitters and microBlox® Series I/O modules using a mobile phone or tablet.

To run the application in demo mode, without a connection to a device, simply tap the icon with the triangles in the upper left eight times.







Bluetooth

DT / SP / TT Series



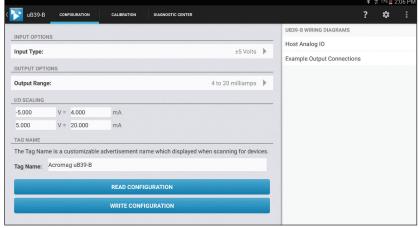
microBlox® Series



Key Features & Benefits

- Connects to microBlox® uB Series I/O modules via Bluetooth wireless technology to an Android or iOS device.
- Connects DT & TT Series transmitters and SP Series splitters to Android™ devices via USB on-the-go cable.
- View wiring diagrams, even without an internet connection.
- Perform quick and easy field diagnostics and troubleshooting.
- Ideal for field technicians.
- View, log, and share field data.

With a couple of taps, quickly configure input, output, unit and scaling options.



Quick and easy access to the wiring diagram, even offline without internet access.







Product Series Selection Guide

Inputs	Outputs	Network Protocol
Up to 16 channels/module; analog (current, voltage), discrete	Analog (current, voltage), discrete	Modbus TCP/IP, Ethernet/IP, Profinet, i2o peer-to-peer
Up to 16 channels/module; analog (TC, RTD, current, voltage), microBlox® uB cable interface, discrete	Analog (current, voltage), discrete	Modbus TCP/IP, Ethernet/IP, i2o peer-to-peer
Up to 96 channels/module; analog (current, voltage), discrete	Analog (current, voltage), discrete	Modbus TCP/IP, UDP/IP, i2o peer-to-peer
Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete	Analog (current, voltage), discrete	Modbus-RTU
Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete	Analog (current, voltage), discrete	Profibus-DP
ıles		
Millivolt, voltage, current, RTD, thermocouple, frequency & high-speed/wideband	Voltage, 0-20mA or 4-20mA DC	Bluetooth wireless technology enabled - Agility™ Mobile App
s Inputs	Outputs	Power
Single-channel; 4-20mA	4-20mA universal sink/source	2/3-wire; 12-32V DC (output loop power)
Single-channel; 4-20mA	4-20mA source	4-wire; 12-32V DC
Single/dual-channel; 4-20mA	4-20mA source	4-wire; 15-36V, 125V DC; 90-250V AC
Single/dual-channel; 4-20mA	4-20mA sink	2-wire; 12-36V DC (output loop power)
Single/dual/quad-channel; 4-20mA	4-20mA source	2-wire; input loop power
The state of the s	1	1
Thermocouple; millivolt; current; voltage	Dual output; 4-20mA sink/source	2-wire; 7-32V DC (output loop/local power)
	Up to 16 channels/module; analog (current, voltage), discrete Up to 16 channels/module; analog (TC, RTD, current, voltage), microBlox® uB cable interface, discrete Up to 96 channels/module; analog (current, voltage), discrete Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete Millivolt, voltage, current, RTD, thermocouple, frequency & high-speed/wideband Single-channel; 4-20mA Single-channel; 4-20mA Single/dual-channel; 4-20mA	Up to 16 channels/module; analog (current, voltage), discrete Up to 16 channels/module; analog (TC, RTD, current, voltage), microBlox® uB cable interface, discrete Up to 96 channels/module; analog (current, voltage), discrete Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete Up to 12 channels/module; analog (TC, RTD, current, voltage), discrete Willivolt, voltage, current, RTD, thermocouple, frequency & high-speed/wideband Single-channel; 4-20mA Single-channel; 4-20mA Single-channel; 4-20mA Single/dual-channel; 4-20mA 4-20mA source Single/dual-channel; 4-20mA 4-20mA source Single/dual-channel; 4-20mA 4-20mA source









630T Series (633T)

650T Series (653T)



4-wire; 15-36V, 125V DC;

90-250V AC

2-wire; 12-36V DC

(output loop power)

Single input; 4-20mA

Single input; 4-20mA

Dual output; 4-20mA source

Dual output; 4-20mA sink

Product Series Selection Guide



Signal Conditioner	s Inputs	Outputs	Power					
Signal Transmitters and	Signal Transmitters and Converters							
DT230 Series	Dual-channel; current, voltage, thermocouple, RTD, resistance	4-20mA universal sink/source	2-Wire, 7-32V DC loop power					
DT330 Series	Dual-channel; current, voltage, thermocouple, RTD, resistance	Scalable ±10V, 0-10V, ±20mA, 0-20mA source	4-Wire, 6-32V DC external power					
ST130 Series	Single-channel; thermocouple, RTD, resistance, millivolt	4-20mA sink	2-wire; 9-32V DC (output loop power)					
TT230 Series	Single-channel; current, voltage, thermocouple, RTD, thermistor, resistance, potentiometer, frequency	4-20mA universal sink/source	2/3-wire; 12-32V DC (output loop power)					
TT330 Series	Single-channel; current, voltage, thermocouple, RTD, thermistor, resistance, potentiometer, frequency	Scalable ±10V, 0-10V, ±20mA, 0-20mA source	4-wire; 12-32V DC					
uBTX microBlox® Series	Single-channel; current, voltage, thermocouple, RTD, frequency	0/4-20mA, 0/1-5V	6-32V DC SELV					
610T Series	Single/dual-channel; current, voltage	Scalable 0-10V, 0-20mA source	4-wire; 10-36V DC					
650T Series (654T)	Dual-channel; current, voltage	4-20mA sink	2-wire; 12-50V DC (output loop power)					
650T Series (655T, 656T)	Single/dual-channel; thermocouple, millivolt	4-20mA sink	2-wire; 12-50V DC (output loop power)					
650T Series (657T, 658T)	Single/dual-channel; RTD, resistance	4-20mA sink	2-wire; 12-50V DC (output loop power)					
800T IntelliPack® Series	Single/dual-channel; current, RTD, thermocouple, resistance, voltage, frequency/pulse, strain gage (bridge), load cell	Scalable 0-10V, 0-20mA source, alarm relay	4-wire; 10-36V DC					
Limit Alarms								
uBTA microBlox® Series	Millivolt, voltage, current, RTD, thermocouple	Single/dual SPST/SPDT 1A/5A relays, 0/4-20mA, 0/1-5V	6-32V DC SELV					
800A IntelliPack® Series	Single/dual-channel; current, voltage, thermocouple, RTD, resistance	Single DPDT or dual SPDT 5A relays	4-wire; 10-36V DC					
260A / 361A / 461A Flat Pack Series	Single-channel; current, voltage	Single/dual SPDT 2A or 5A alarm relays	2/3/4-wire; input loop-powered (4-20mA); 10-36V DC; 115/230V AC					
Computation								
IntelliPack® (892M, 894M)	Dual/quad input; current, voltage	Single output; 0-20mA source, 0-10V	4-wire; 10-36V DC					
IntelliPack® (895M, 896M)	Single/dual-channel; current, voltage	Frequency, pulse, pwm, alarm relay	4-wire; 10-36V DC					





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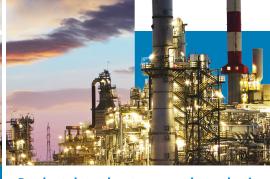












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