



FEMALE RTJ BLEED RING    FF BLEED RING

## Bleed Rings

Bleed Rings (also known as a “vent rings”, “flushing rings” or “drip rings”) provide a means for draining/venting of pipe streams, sample take off points, attaching instruments or even bleeding of valves.

Bleed rings are fitted to standard flanges and are retained within the flange bolt circle using conventional gaskets or RTJ rings.

Bleed rings come in many different materials such as carbon steel, stainless steel, etc, depending on the intended use. They provide a convenient way of draining piping, taking samples, attaching instruments or even bleeding of a valve. When used with a valve and blind flange, it allows you to relieve the pressure if your valve is leaking before you remove the flange.



STBR



## Condensate Pots

The primary use of condensate pots is to increase the accuracy of flow measurement in steam pipelines. They provide an interface between the vapour and condensed phases of the fluid in the impulse lines.

The condensate pots are available in a range of materials and sizes and are designed in accordance with ASME VIII Div 1 and produced in ASME coded workshops. All condensate pots are CE\* marked to PED 2014/68/EU for use with Group 2 Gases. (Condensate pots with internal volumes under 1 litre are not CE marked as they fall under SEP)

Installation can be either vertical or horizontal lines between the primary (Flow Meter) and the secondary (transmitter/gauge) to act as a barrier to the line fluid permitting direct sensing of the flow conditions. Units should be mounted at the same level minimising possible error that could arise due to unequal head of fluid in the connecting pressure lines.

Typical industry applications include: Refineries, Power plants, Chemical and Petrochemical, Steel plants and other process industries.



STCP

## Figure-8 Spectacle Blinds

Figure-8 spectacle blinds are used to assist with the isolation of sections of pipework from flowing or pressurized mediums, to enable safe maintenance.

Figure-8 spectacle blinds are of a dual disc construction with a tab joining the blind and spacer rings. When the spacer disc is installed, the blind disc is exposed above the pipe line showing that the spacer is in use. The disc periphery is etched with the part number and identification details.



MRTJ

FRTJ

STSP8



## Paddle Blinds and Spacers

Paddle Blinds and Spacers are used to assist with the isolation of sections of pipework from flowing or pressurized mediums, to enable safe maintenance. Paddle type blinds are of a single disc construction with a tab handle or 'T'-bar handle that can be seen when installed, which has the component details etched upon it. Paddle type plates can either be blind type (no hole) or spacer type (with a hole).



STPB



## Grounding Rings

Grounding rings are used to suppress electrical interference at the installation location for electromagnetic flow meters (MAG meters). They are provided in pairs and are installed upstream and downstream of the flow meter.

Sur-Tech grounding rings are flat paddle plate type wafer-style rings designed to be installed between ANSI flanges. The use of grounding rings significantly reduces electrical noise and are recommended for optimum performance and operation of electromagnetic flow meters installed in lined or non-conductive pipes.

The bore size of the grounding ring should always match the meter line size (as opposed to the original pipe size) for installation with inline meters, to ensure that there is no intrusion into the flow line.



STGR

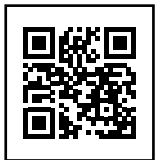




## Attachable Loop-Powered Digital Indicators

- High accuracy 4 mA to 20 mA loop-powered indicators for 11 Series Sanitary, 300, 615/616 Series pressure transmitters and 800 Series temperature transmitters
- Can be fitted to pressure transmitters utilizing a 4 mA to 20 mA output signal and the Hirschmann (DIN 43650A) connector
- Easily inserted between the transmitter body and the connector
- Programmable to display a range of -1999 to 9999; may be tilted for better viewing
- User selectable digital filtering improves readability in rapidly varying pressure applications
- All parameters are stored in non-volatile memory so that reprogramming is not necessary in the event of a power failure
- Currently used with 300 Series Pressure Transmitter and 800 Series Temperature Transmitter

Note: Indicate display range on order (eg. 0-1,000 for 4 mA to 20 mA)

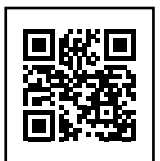


ST1800

## Compact Loop-Powered Digital Indicators

- Provides compact digital display of any desired unit of pressure, temperature, level, force, or flow measurement
- Dual range 4 mA to 20 mA or 10 mA to 50 mA
- 3-1/2 digit, 0.6" high display with a span range of 0 to 1999
- Positive image reflective LCD
- Span and zero offset capabilities
- Negative pressure and overpressure indication
- Selectable decimal point position
- Compact, lightweight, impact-resistant NEMA 4X, IP65 housing with sealed front bezel
- Fits DIN standard cut-out 2.68" (68 mm) x 1.30" (33 mm)
- CE compliant to suppress RFI, EMI, and ESD

ST1900C

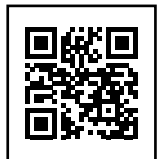




## Compact Smart System Digital Indicators

- Offers all the features of a full size panel meter in a compact digital display for pressure, flow, level, force, and temperature measurement
- 5 digit, 0.48" LCD display with a span range of -9999 to 99999
- Reflective LCD display; or green backlighting optional
- Display is fully expandable to accommodate applications requiring relays, dual sinking outputs, and serial communications by RS232 or RS485
- Fully scalable & field upgradable
- Simple programming through front panel
- Compact, lightweight, impact-resistant NEMA 4X, IP65 housing with sealed front bezel
- CE compliant to suppress RFI, EMI, and ESD
- Relay, communications and dual sinking output option cards available

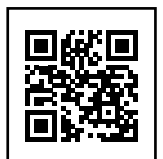
ST1950



## Smart System "Intelligent" Digital Indicators

- Accepts a variety of standard process signals and precisely scales them into any desired unit of measurement
- Single input or dual input
- Employs advanced technology for stable, drift-free readout
- Field upgradeable with plug-in option cards; including 4 set point alarms, analog output and serial communication
- 24 Vdc transmitter power supply
- 16 point scaling for non-linear processes
- Max. and min. value display
- Easy menu-driven programming
- NEMA 4X/IP65 sealed front bezel
- Optional PC software available for configuration
- AC or DC input power
- Signal totalizer for batch weighing or other timed input processes
- Programmable signal response time
- Standard DIN panel cutout
- CE compliant to suppress RFI, EMI, and ESD

ST2000, ST2100





## Dual Display Digital Indicators

- Accepts a wide variety of input signals including thermocouples or RTDs, current, voltage, resistance and process signals
- Dual display with tri-color and variable intensity digits
- Universal AC/DC power input and 24 Vdc sensor excitation
- Built-in USB port for configuring with a computer
- Meter update rate up to 160/second
- Plug-in option cards available for field upgrading
- Interface software available on request

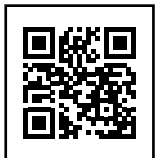
ST2200



## Calibrators

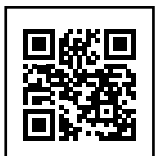
Electronic ultra-high accuracy digital pressure indicators are designed to satisfy both field and laboratory calibration requirements. The handheld calibrator allows you to bring your standard to the source to calibrate instruments while they are still installed. A similar meter-shaped benchtop pressure calibrator offers many of the same electronic features necessary for switch setting, transducer calibration and much more. Both incorporate two bays for snap-in removable pressure sensors or temperature device interface modules. This allows the instrument to be used in a wide variety of pressure and temperature measurements as well as current and voltage indication, displaying up to three measurements simultaneously. A third, smaller meter uses fixed sensors with the same accuracies.

STATE-2



## Hand-Pumps Controllers

Offering a variety of hand pumps to generate pressure or vacuum for instrument calibration. In addition, the unique volume controller can be added to most pneumatic calibration benches to make it easy to dial-in specific pressure test points without wasting time under-shooting and over-shooting the target point.





## Hydraulic Testers

If you rely on accurate readings from your pressure measuring instruments, periodic calibration checks with precise calibration equipment will be necessary. Hydraulic deadweight testers are primary pressure standards that derive their accuracy directly from principles of physics and maintain it for an extended period of time. Pressure gauge comparators are secondary standards that use the same hydraulic test pump to generate pressure, but compare to high accuracy “master” test gauges for fast and convenient calibration.

ST1305D, ST1305DH, ST1327CM, ST1327D



## Test Gauges

Pressure test gauges and precision test gauges provide an accurate, dependable secondary pressure standard for the calibration of industrial and process gauges. Whether a portable digital test gauge is needed for field calibrations or an ultra-high precision test gauge is required for a calibration laboratory, you’ll find the right transfer standard in our wide selection of pressure test instruments.

ST1084, ST1082, STA4A



## Heat Value Gas Chromatograph

This a compact gas chromatograph that analyzes up to 11 components of natural gas and outputs the results.

It is ideal for various natural gas applications including efficiency calculation of gas turbines and gas combustors and monitoring of boiler efficiency.

STHGC303



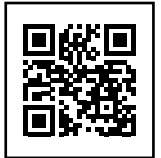




## Natural Gas Calorimeter GasCVD

The GasCVD Natural Gas Calorimeter facilitates smooth, simple, and accurate trade transactions involving natural gas, a resource of increasing global importance. This calorimeter conforms to international measurement standards. Its small size, light weight, high accuracy, and low price are impossible for conventional gas calorimeters and gas chromatographs to match. This gas calorimeter is also ideal for LNG calorific adjustment lines and applications that improve combustion efficiency for gas turbines and furnaces.

STCVM4000



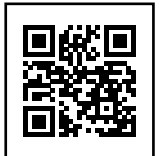
## Burner Interlock and Burner Control Module

The combustion safety burner interlock and burner control modules provide safe operation of industrial furnace burners.

Various kinds of interlock monitoring and ignition systems can be realized by the combination of burner interlock modules and burner control modules.

The desired safety features, such as interlock monitoring timing and type of ignition system, can be implemented simply by selecting from the built-in safety features using the PC loader.

In addition, they support the Advanced UV Sensor flame detector for continuous combustion operation, as well as UV sensors for batch operation.



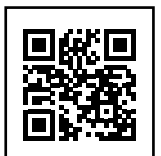
## Burner Controllers

The combustion safety burner controllers used exclusively for batch operation (for combustion equipment that shuts down at least once per 24-hour period).

These burner controllers automatically and safely handle ignition, flame monitoring, and fuel cutoff for proportionally controlled oil or gas burners. In addition, they are equipped with a 7-segment display and trial-operation mode which are helpful for maintenance and adjustment work.

With a host communication function and Smart Loader Package, detailed operation monitoring and troubleshooting are possible.

STBCR15, STBCR25, STBCR35

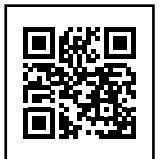




## Advanced Ultraviolet Burner Controller

Advanced UV relays have a dynamic self-checking capability. By driving the shutter of the UV sensor, the advanced UV relays check themselves and the sensor for malfunction, while at the same time driving the flame relay. Even if the sensor relay amplifier circuit should somehow fail, the relay will be reliably turned off to ensure safety.

In addition, the burner controller is equipped with a communication function, can save data to its built-in microcomputer, and supports various applications when used with a PC and display device.



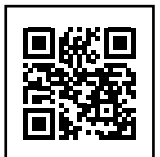
STOUR300C, STOUR350C



## Advanced Ultraviolet Flame Detector

The Advanced UV Sensor detects the ultraviolet radiation emitted by the flame of an oil or gas burner.

When the sensor is used together with the specially designed advanced UV relay, highly reliable flame safety control is achieved by driving the sensor's built-in shutter to dynamically check that the UV sensor and UV relay are operating properly.

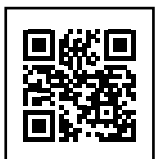


STAUD30C



## Advanced Ultraviolet Flame Detectors

Advanced Ultraviolet flame detectors are equipped with a UV sensor made by a proprietary manufacturing process, and are subjected to strict testing standards. They are designed for use exclusively with batch operation furnaces.



STAUD100

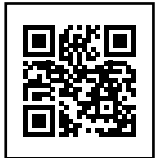




Equipped with dedicated large size diaphragm

## High-Performance Gas Solenoid Valve for Industrial Applications

High performance industrial gas solenoid valves are used for safety shutoff of the gas supply to gas burners and gas combustion furnaces.



STGVA

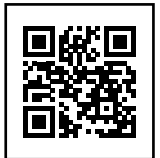


## Dynamic Self-Checking Burner Controller

The Dynamic Self-Checking Burner Controller is a flame safeguard controller for batch or continuous operation.

In combination with the Advanced Ultraviolet Flame Detector or the Explosion-Proof Advanced Ultraviolet Flame Detector, it safely and automatically ignites and monitors a gas or oil burner using the correct sequence of steps.

This device monitors combustion while continuously checking the tube unit and the flame detection circuits by driving the shutter.



STOUR450C



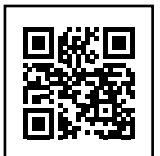
## Burner Controller

Burner controllers were developed as an upgrade for the old burner controller, and are designed for batch operation of combustion equipment (at least one start and stop in a 24-hour period).

This device is used in combination with an Advanced Ultraviolet Flame Detector or a flame rod.

For combustion equipment that operates continually for 24 hours or longer, use a burner controller designed for continuous operation instead of this device.

This device is structured for external instrumentation of the prepurge function. It automatically ignites the pilot and main burners and monitors the flame. In addition, when flame failure occurs, this device locks out the combustion equipment.



STOUR890



## PSD Sphere Detector

The PSD sphere detector offers reliable detection even in the case of contiguous spheres. This device is used to control the transmission and reception of petroleum product physical separators or cleaning scrapers inside hydrocarbon pipelines. This detector can be placed without obstructing the flow and hence without hindering the passage of the spheres/scrapers and removed in load for verification without interrupting the transport.

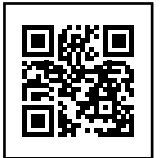
STPSD



## Basic Field Mount Indicator

Basic field mount indicators with all the benefits you may expect. Durable, reliable and very easy to operate.

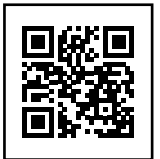
STB-SERIES



## Field Mounted Flow Computer

The next level in flow computing: powerful, field mounted, weights and measures approved and suitable for use in hazardous atmospheres.

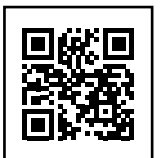
STC-SERIES



## Watertight DIN Panel Mount Indicators

Watertight DIN panel mount indicators, the better alternative for your existing, not waterproof panel meters.

STD-SERIES





## Flow Rate Indicator/Totalizer

The ST4110 Flow Logger/Totalizer provides unequalled safety and ease of use, opening covers is history. The through-glass keypad enables operability without interruptions.

The ST4110 saves time, money and hassle and delivers user-friendliness in the toughest conditions.

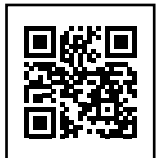
ST4110



## Robust Intrinsically Safe Indicators

Robust Intrinsically Safe flow rate indicators / totalizers for safe and hazardous areas. Combining easy operation and extreme durability in the toughest conditions.

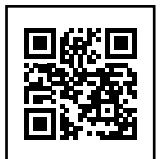
STF-SERIES



## DIN Panel Mount Batch Controllers

DIN panel mount batch controllers, focussed on your convenience. Multiple batch info displayed at a glance and easy to operate with the numerical keypad.

STN-SERIES



## Process Monitor

Provides logistic supply chain optimization for raw bulk products stored in tanks/silos with safe, web-based remote monitoring solutions.

STPM

