

Innovating Instrumentation Solutions Worldwide

Our expanding global footprint propels us to compete with the world's finest manufacturers, empowering industries worldwide with our exceptional instrumentation products.

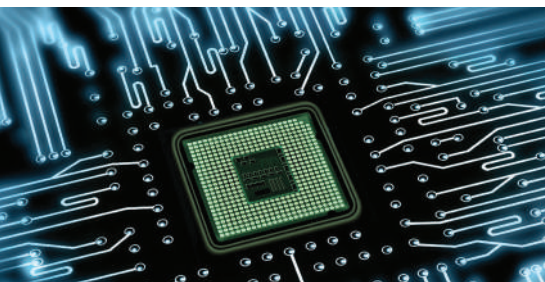


Products for Process Instrumentation

PRECISION REDEFINED



Engineering Excellence in Instrumentation.



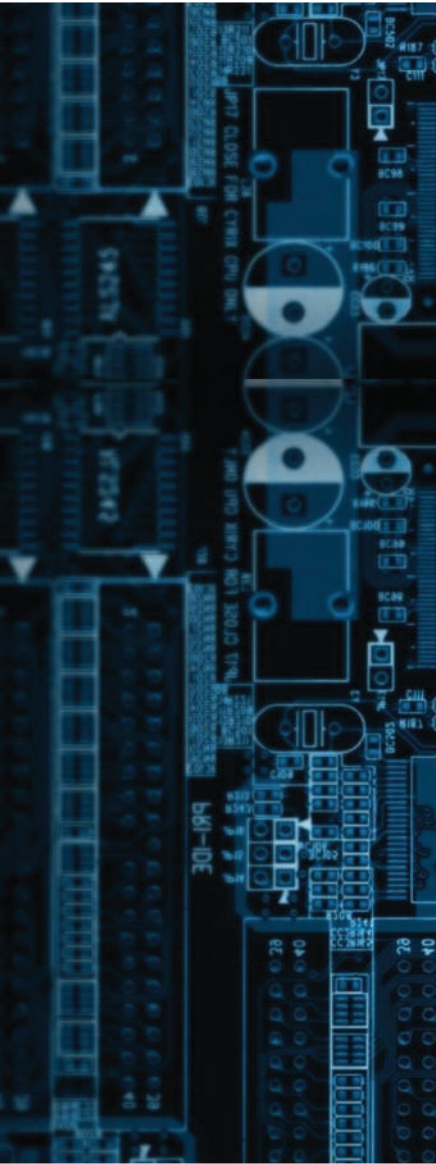
Supersedes Catalog IC-03-2017



The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with ISO 9001.

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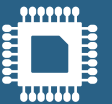
Company Profile



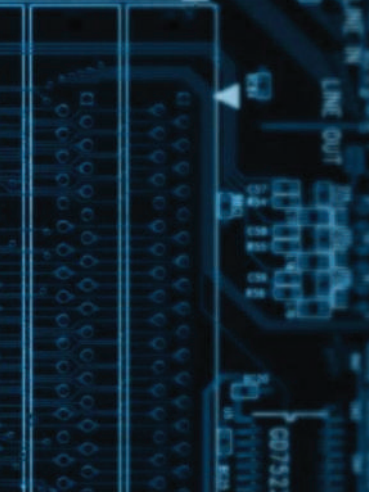
Over 30 Years
In Industry



Competent and
Efficient Workforce



Precision
Product Design



Ashe Controls Private Limited was established in 1992 in Mumbai, India, with the primary objective to design and manufacture reliable and advanced instrumentation products. Over the years, the company has evolved into a reliable solutions provider in the instrumentation industry, with a range of performance driven products.

The company is proud to be a trusted partner to a host of discerning companies, offering a wide range of process control instrumentation and automation products for varied applications. Today, Ashe Controls is represented in more than 30 cities in India and across the world in countries like Singapore, the Middle East and Canada, with a customer base ranging from OEMs to System Integrators to Distributors.

At Ashe, we uphold product quality above all else and this is reflected in the integrity of design and workmanship in all our products. Our technical team comprises of a dynamic group of designers and engineers having several years of rich experience in the process control industry. With their in-depth knowledge, know-how and creativity, our team offers simple, practical, and cost-efficient solutions using state of the art technology, for hundreds of process measurement and control applications.



Strong
Application Focus



High Performance
Products



Robust
Packaging



Timely Product
Deliveries



Strong
Customer Support



Happy and
satisfied Clients

Applications

Our process measurement and control instrumentation products encompass a comprehensive range of high quality, precision instruments, meticulously designed to cater to the diverse needs of various industries. Our products find extensive use in applications ranging from regulating temperature, pressure, and flow in industrial processes, to analyzing gas and liquid properties and maintaining optimal conditions in research and development laboratories.



TX SERIES TRANSDUCERS & REPEATERS



EX-I CERTIFIED LOOP POWERED INDICATORS



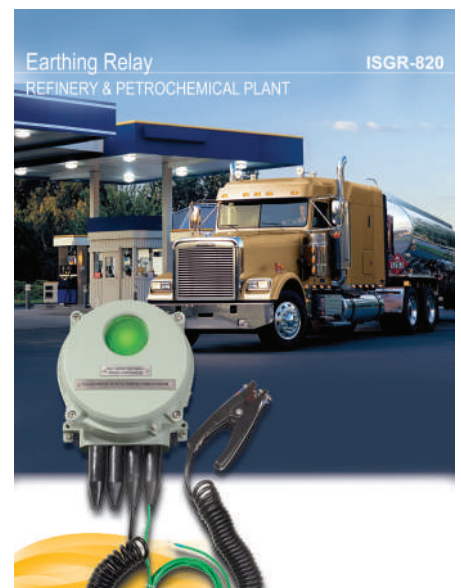
IP66 CERTIFIED WEATHERPROOF INDICATORS



CO GAS MONITORING AND CONTROL



WEATHERPROOF INDICATOR WITH 4" DISPLAY



STATIC CHARGE GROUNDING SYSTEM



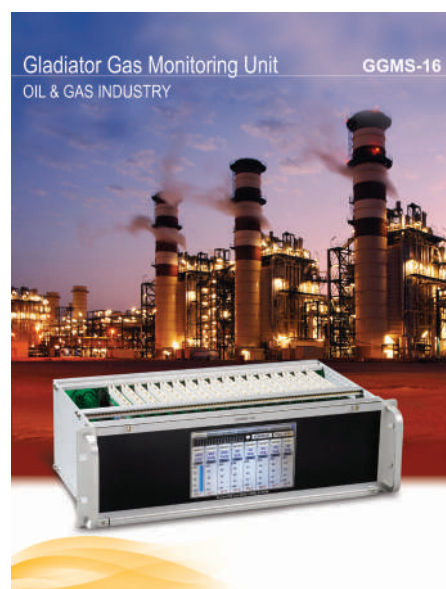
With over 32 years of proven functionality, our instruments have been deployed across industries such as Oil and Gas, Chemical, Food and Beverage, and Pharmaceutical, ensuring maximum efficiency and productivity. We take pride in delivering a high degree of a high degree of aesthetics, ergonomics, exceptional precision and reliability in each instrument, and our commitment to quality has helped establish us as a trusted name in the industry.



MULTICHANNEL TEMPERATURE MONITORING



GPS SYNCHRONIZED CURRENT INTERRUPT TIMER



MULTICHANNEL GAS MONITORING & CONTROL



FLOW TOTALIZER IN WEATHERPROOF EXECUTION



ANALOG & DIGITAL TO MODBUS RTU OR TCP/IP



STATIC POWER SWITCHING UNIT (SINGLE PHASE)



Signal Transducers

SINGLE CHANNEL ISOLATORS AND TRANSDUCERS



Peak Value Isolator Transducer TX-201

- Two DC voltage or DC current analog inputs
- Isolated analog output of 4-20 mA DC proportional to higher of the two Inputs
- Fast response time with high speed signal comparators.
- Uninterrupted output signal with input redundancy



DC Voltage Isolator Transducer TX-205

- DC Current (75 mV from Shunt) or DC Voltage (up to 500 VDC) Input options
- Isolated analog output of 4 to 20 mA DC proportional to input voltage.
- High load driving capacity of output signal
- Excellent linearity and accuracy



Temperature Transducer (RTD) TX-210

- RTD Pt-100 sensor (three-wire) Input
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- AC or DC power supply options (prespecified)
- High Accuracy and Linearity to RTD Sensor signal



Temperature Transducer (TC) TX-215

- Thermocouple sensor inputs (Type J,K,R,S)
- High Accuracy and Linearity to Sensor signal.
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- AC or DC power supply option



Line Frequency Transducer TX-225

- 45 to 65 Hz power line frequency input
- 4-20 mA DC isolated analog output linear to frequency
- Front accessible zero and span calibration
- High load driving capacity of output signal.



DC Current Signal Isolator TX-230

- Analog loop current input with isolated analog current output
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- High load driving capacity of output signal
- AC or DC power supply options (pre-specified)



SINGLE CHANNEL ISOLATORS AND TRANSDUCERS



CE

Buffer Amplifier for Servo Valves TX-105

- Signal Transducer suitable for driving Moog or equivalent Servo Valves
- Unipolar or Bipolar signal input and output options
- Isolated interface between analog signal source or Servo Amplifiers with a Servo/Proportional Valve
- Option of single or dual analog output signals



CE

AC Current Isolating Transducer TX-120

- 0 to 1A or 0 to 5A AC current signal input from CT secondary
- Output signal of 4 to 20 mA or 0 to 10 VDC.
- Excellent accuracy and linearity to input AC current.
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply



CE

Frequency to Current Transducer TX-125

- 0 to 10 KHz pulse frequency input signal
- Isolated output of 4 to 20 mA or 0 to 10 VDC.
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- Front accessible zero and span calibration for output



CE

DC Voltage Signal Isolator TX-235

- DC Voltage input up to 500 VDC
- Three port Optically and Galvanically isolated DC Voltage output
- AC or DC power supply options (pre-specified)
- Auxiliary voltage output to drive external potentiometer for variable input.



CE

Resistance Isolating Transducer TX-240

- Variable Resistance or Potentiometer input
- Analog Current or Voltage output options
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- AC or DC power supply options (pre-specified)



CE

Current to Voltage Transducer TX-245

- 4 to 20 mA DC analog current input
- Three port Optically & Galvanically isolated DC Voltage output
- AC or DC power supply options
- High accuracy and linearity to input signal.



Signal Transducers

SINGLE CHANNEL ISOLATORS AND TRANSDUCERS



CE

AC Voltage Isolating Transducer TX-250

- AC Voltage input signal
- Analog DC Current or DC Voltage output options
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- Slim rugged DIN rail mount execution.



CE

Temperature Transmitter (two-wire) TX-10

- RTD Pt-100 (3-wire) sensor input
- Non-isolated 4 to 20 mA DC two-wire output configuration
- High load driving capacity
- Front accessible zero and span calibration



CE

Temperature Transmitter (two-wire) TX-15

- Various Thermocouple sensor inputs
- Non-isolated 4 to 20 mA DC two-wire output configuration
- Front accessible Zero and Span calibration
- High load driving capacity



CE

Temperature Transmitter (RTD Sensor) TX-22

- RTD Pt-100 (3-wire) input
- Direct Sensor Head Mounting
- Non Isolated 4 to 20 mA DC two-wire analog current output
- Front accessible Zero and Span calibration



CE

Temperature Transmitter (TC Sensor) TX-25

- Thermocouple sensor input (Types J,K,R,S)
- Direct Sensor Head Mounting
- Non-isolated 4 to 20 mA DC two-wire analog current output configuration
- Front accessible Zero and Span calibration



CE

Analog Signal Isolator TX-330

- Analog loop current input with isolated output
- Three port Optical and Galvanic isolation
- Front accessible Zero and Span calibration
- AC or DC power supply options (pre-specified)



MULTI CHANNEL ISOLATORS AND TRANSDUCERS



CE

Temperature Isolating Repeater (RTD) TX-212

- RTD Pt-100 sensor (three-wire) input
- Dual analog signal outputs proportional to temperature
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- High Accuracy and Linearity



CE

AC Current Transducer(Repeater) TX-122

- 0 to 1A or 0 to 5A AC current signal input from CT secondary
- Dual isolated output signals of 4 to 20 mA or 0 to 10 VDC
- Front accessible zero and span calibration for each output
- Excellent accuracy and linearity to input AC current.



CE

Multichannel Signal Converter TX-105-C4

- Up to four DC voltage input signals
- Up to four 4 to 20 mA DC analog outputs
- Independent Zero and Span adjustment option
- High accuracy and linearity to input signal.
- Galvanic Isolation between Channels



CE

Signal Isolating Repeater (Dual Output) TX-232

- Various Analog and field Sensor input signal options
- Dual Analog signal outputs of 4 to 20 mA or 0 to 10 VDC.
- Optical and Galvanic isolation between Input, Outputs and Power Supply.
- Front accessible Zero and Span calibration for each output.



CE

Signal Isolating Repeater (Four Outputs) TX-134

- Various Analog and field Sensor input signal options
- Four independent and isolated analog current or voltage output signals
- High load driving capacity of each output
- Front accessible Zero and Span calibration for each output.



CE

Signal Isolating Repeater (Four outputs) TX-234

- Various Analog and field Sensor input signal options
- Four independent and isolated output signals
- Front accessible Zero and Span calibration for each output.
- High load driving capacity of each output



Signal Transducers

MULTI CHANNEL ISOLATORS AND TRANSDUCERS



**Resistance Multiplier(Dual Output)
TX-242**

- Tap Position Transmission application
- Dual analog isolated outputs with high load driving capacity.
- Three-port Optical and Galvanic Isolation between Input, Output and Power Supply
- High load driving capacity of each output



**Multichannel Isolator Module
TX-434**

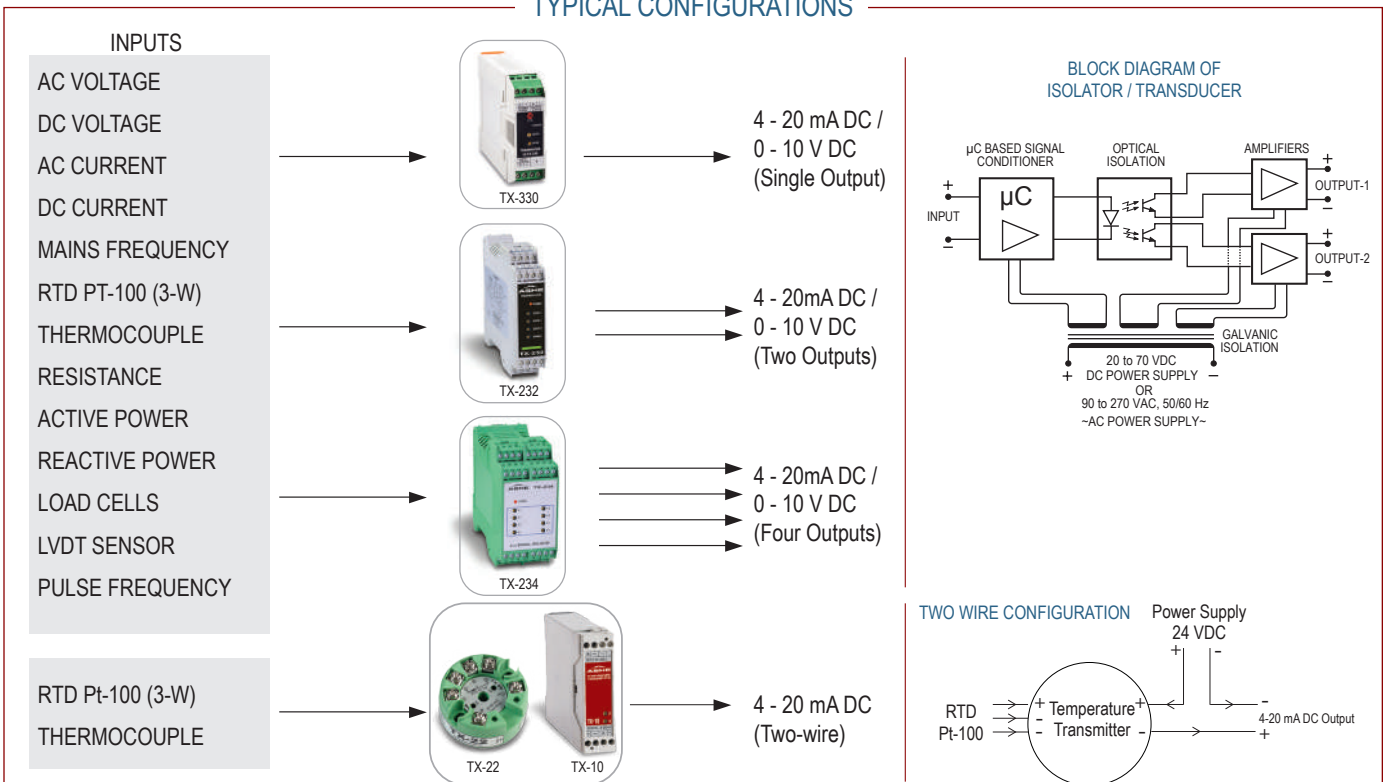
- Up to four DC Current or Voltage input signals
- Up to four DC Current or Voltage output signals
- Independent Zero and Span adjustment option for outputs
- High Accuracy and Linearity of output signals



**Signal Isolating Repeater (Dual Output)
TX-132**

- Various Analog and field Sensor input signal options
- Dual Analog signal outputs of 4 to 20 mA or 0 to 10 VDC
- 110 VAC or 230 VAC power supply option
- Front accessible Zero and Span calibration for each output

TYPICAL CONFIGURATIONS

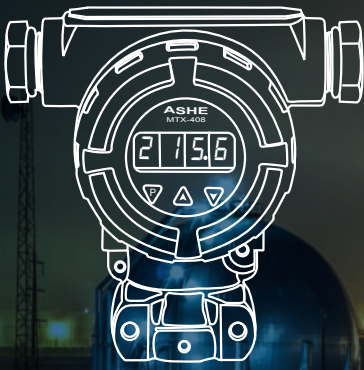




PRODUCT SELECTION GUIDE

TX-SERIES ISOLATORS AND TRANSDUCERS

Model No.	Input								Output		Isolation Y	Power Supply		Dimensions [HxWxD] mm
	DC Current	AC Current	DC Voltage	AC Voltage	RTD Pt-100	Thermo-couple	Resis-tance	Freq-uecy	DC Current	DC Voltage		AC Voltage	DC Voltage	
	L	U	V	H	R	T	E	F	G	O		A	D	
TX-10					☑					☑			2-wire	75x22x110
TX-15						☑				☑			2-wire	75x22x110
TX-22					☑					☑			2-wire	Head mount
TX-25						☑				☑			2-wire	Head mount
TX-105	☑		☑							☑	☑	☑	☑	75x55x110
TX-105 C4	4x L		4x V							4x G	4x O	☑	☑	75x55x110
TX-120		☑								☑	☑	☑	☑	75x55x110
TX-122		☑								2x G	2x O	☑	☑	75x55x110
TX-125								☑		☑	☑	☑	☑	75x55x110
TX-132	☑		☑							2x G	2x O	☑	☑	75x55x110
TX-134	☑		☑		☑	☑	☑	☑		4x G	4x O	☑	☑	75x100x110
TX-201	2x L		2x V							☑		☑	☑	100x22x110
TX-205			☑							☑		☑	☑	100x22x110
TX-210					☑					☑	☑	☑	☑	100x22x110
TX-212					☑					2x G	2x O	☑	☑	100x22x110
TX-215						☑				☑		☑	☑	100x22x110
TX-225								☑		☑	☑	☑	☑	100x22x110
TX-230	☑									☑		☑	☑	100x22x110
TX-232	☑		☑							2x G	2x O	☑	☑	100x22x110
TX-234	☑		☑		☑	☑	☑	☑		4x G	4x O	☑	☑	100x45x110
TX-235			☑							☑	☑	☑	☑	100x22x110
TX-240								☑		☑		☑	☑	100x22x110
TX-242								☑		2x G		☑	☑	100x22x110
TX-245	☑										☑	☑	☑	100x22x110
TX-250				☑						☑	☑	☑	☑	100x22x110
TX-330	☑		☑							☑	☑	☑	☑	75x22x110
TX-434	4x L		4x V							4x G	4x O	☑	☑	75x90x50



Loop Powered Indicators

LOOP POWERED LCD AND LED INDICATORS



Loop Powered LCD Indicator - Module JM-408 M

- Standard 4 to 20 mA DC current loop powered operation (no external power supply required)
- Intrinsically Safe Ex-i certified by CIMFR
- 4-digit LCD or LED seven-segment display options
- Low Forward Voltage Drop



Loop Powered LCD Indicator JM-408-CX

- Standard 4 to 20 mA DC current loop powered operation (no external power supply required)
- Intrinsically Safe Ex-i certified by CIMFR and PESO certified Flameproof Exd enclosure
- Low Forward Voltage Drop
- SS mounting accessories kit



Loop Powered LED Indicator JM-408-EX

- Standard 4 to 20 mA DC current loop powered operation (no external power supply required)
- Intrinsically Safe Ex-i certified by CIMFR and PESO certified Flameproof Exd enclosure
- IP66 certified ingress protection
- Low Forward Voltage Drop



Loop Powered LED Indicator (compact) MMX-408

- Standard 4 to 20 mA DC current loop powered operation (no external power supply required)
- PESO certified Flameproof Exd enclosure
- 0.4" seven-segment LED display
- Low Forward Voltage Drop



Loop Powered LED Temp Indicator MTX-408

- Standard 4 to 20 mA DC current loop powered operation (24 VDC loop voltage for Transmitter powering required).
- Built-in Temperature Transmitter for direct RTD sensor input
- 0.4" seven-segment LED display
- PESO certified Flameproof Exd enclosure



Loop Powered Indicator - Panel Mount MPX-408

- Standard 4 to 20 mA DC current loop powered operation (no external power supply required)
- LCD and LED seven-segment display options
- Fully configurable for zero, span and decimal settings
- Low Forward Voltage Drop



LOOP POWERED LCD AND LED INDICATORS



Loop Powered Indicator Weather-proof JM-408-CW

- Standard 4 to 20 mA DC current loop powered operation (no external power supply required)
- Intrinsically Safe Ex-i certified and IP66 certified enclosure
- 4 ½ digit, 0.7" LCD seven-segment display
- Industrial grade Polycarbonate enclosure with safety glass window.



LCD Loop Powered Indicator JM-408 S

- Standard 4 to 20 mA DC current loop powered operation
- Intrinsically Safe Ex-i certified and Stainless Steel SS316 die-cast enclosure IP66 certified enclosure
- 4-digit, LCD / LED display option
- Low Forward Voltage Drop



Loop Powered Indicator with control FLP JM-43

- Standard 4 to 20 mA DC current loop powered display (24VDC external power supply required for Relay driving).
- PESO certified Flameproof Exd enclosure (IP66)
- 4 digit, 0.7" LCD seven-segment display
- Three control Relay potential free contacts

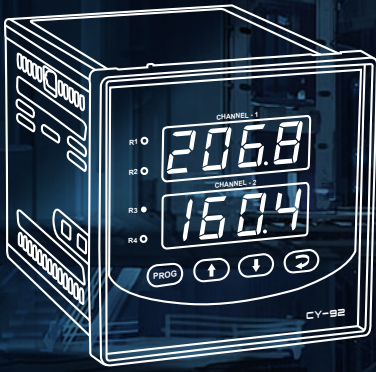
PRODUCT SELECTION GUIDE

LOOP POWERED INDICATORS

Model No.	Input							Output			Power Supply		Display		Execution	Dimensions [HxWxD] mm
	DC Current	AC Current	DC Voltage	AC Voltage	Thermo-couple	RTD Pt-100	RS-485	DC Current	RS-485	Relays	AC Voltage	DC Voltage	LCD Display	LED Display		
	L	U	V	H	T	R	M	G	M	4	A	D	C	E		
JM-408 M	✓							✓					✓	0.5"	M	72x20
JM-408 X	✓							✓					✓	0.5"	X	140x130x130
JM-408 W	✓							✓					✓	0.5"	W	90x100x93
JM-408 S	✓							✓					✓	0.5"	S	125x125x115
JM-43	✓							✓		3			✓		X	140x130x130
MMX	✓							✓						0.4"	X	110x110x100
MFX	✓							✓						0.5"	W	120x80x85
MPX	✓							✓					✓	0.5"	P	48x96x75
MTX	✓							✓						0.4"	X	110x110x100

NOTE

- Module execution - M
- Wall mount execution - A
- Panel mount execution - P
- Flame-proof execution Aluminum Alloy - X
- Weather-proof execution - W
- Flame-proof execution Stainless steel - S



Digital Indicators and Controllers

PANEL MOUNT EXECUTION



Universal Indicator with upto 4 Relay Series AF

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to four Relay change over contacts
- Dual 4-digit LED seven-segment displays
- Analog Retransmission output option



Digital Indicator with 2 Relays & Modbus Series AK

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to two Relay change over contacts
- Data communication on RS-485 Modbus RTU option
- Analog Retransmission output.



Digital Bar Graph Indicator Series BMX

- Dual 100 segment LED Bar-graph and Dual 4-digit seven segment LED displays
- Single and dual channel options
- Up to 2 control relay outputs per channel
- 4-20 mA DC Retransmission per channel



Digital Indicator & Controller (72x72 mm) Series CY-40

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to two Relay change-over contacts and analog retransmission output
- 4-digit 0.5" LED seven-segment display
- AC or DC power supply options



Digital Indicator & Controller(48x48 mm) Series CY-50

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to two Relay change-over contacts and analog retransmission output
- 4-digit 0.5" LED seven-segment display
- AC or DC power supply options



Digital Indicator & Controller (48x96 mm) Series CY-60

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to two Relay change-over contacts and analog retransmission output
- 4-digit 0.5" LED seven-segment display
- AC or DC power supply options



PANEL MOUNT EXECUTION



Digital Indicator with Modbus In/Out CY-65

- Analog input and RS-485 Modbus output or RS-485 Modbus input and analog output (pre-specified)
- Up to two Relay change-over contacts
- 4-digit 0.5" LED seven-segment display
- AC or DC power supply options



Digital Indicator & Controller (96x96 mm) Series CY-70

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to two Relay change-over contacts and analog retransmission output
- 4-digit 0.5" LED seven-segment display
- AC or DC power supply options



Digital Indicator Controller (4" Display) Series CY-80

- DC/AC Current, DC/AC Voltage, Temperature sensors (RTD Pt-100 & Thermocouple) input options.
- Up to two Relay change-over contacts and analog retransmission output
- 4-digit 4" LED seven-segment display
- Field mount Weather-proof execution



Dual-Channel Digital Indicator Controller Series CY-90

- 4-20 mA DC and RTD (Pt-100) input signal options
- Dual 4-digit seven-segment red LED displays
- Two Relay change over contacts per channel
- Data communication on RS-485 Modbus RTU protocol



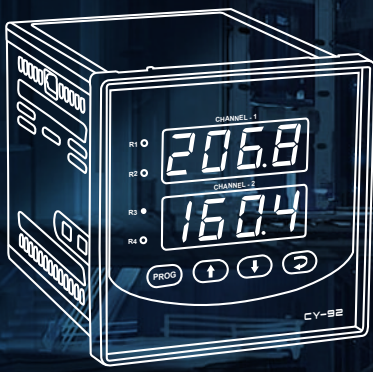
Digital Indicator DX-400

- AC/DC Current, AC/DC Voltage, Temperature Sensor input selection options
- Digital 3-½ digit process Indicator
- 0.5" LED seven segment display
- Front accessible zero and span calibration



Digital Indicator DXU-409

- AC/DC Current, AC/DC Voltage, Temperature Sensor input selection options
- Digital 4-½ digit process Indicator
- 0.5" LED seven segment display
- Front accessible zero and span calibration



Digital Indicators and Controllers

PANEL MOUNT EXECUTION



Digital Indicator Controller (DIN Rail) VX-72

- AC/DC Current, AC/DC Voltage, Temperature Sensor input selection options
- Up to two Relay change over contacts
- Analog Retransmission output option
- Compact DIN Rail mount execution



Universal PID Controller (96x96 mm) PX-72

- DC Current, DC Voltage, Temperature Sensor (RTD Pt-100 and Thermocouple) inputs
- Dual display for Process Value and Set value with Bargraph display of PID analog output.
- 24 VDC Auxillary Power supply output
- Auto and Manual PID tuning options



Digital pH Meter ApH-413

- Display range upto 14pH
- Retransmission for Temperature value
- Two control Relay outputs
- Bright dual line OLED Display

PRODUCT SELECTION GUIDE

DIGITAL INDICATORS AND CONTROLLERS

Model No.	Input							Output			Power Supply		Display		Execution	Dimensions [HxWxD] mm
	DC Current	AC Current	DC Voltage	AC Voltage	Thermo-couple	RTD Pt-100	RS-485	DC Current	RS-485	Relays	AC Voltage	DC Voltage	LCD Display	LED Display		
	L	U	V	H	T	R	M	G	M	4	A	D	C	E		

AF SERIES

AF-70	✓		✓		✓	✓		✓			✓	✓			0.5" & 0.4"	P	96x96x75
AF-71	✓		✓		✓	✓		✓		1	✓	✓			0.5" & 0.4"	P	96x96x75
AF-72	✓		✓		✓	✓		✓		2	✓	✓			0.5" & 0.4"	P	96x96x75
AF-73	✓		✓		✓	✓		✓		3	✓	✓			0.5" & 0.4"	P	96x96x75
AF-74	✓		✓		✓	✓		✓		4	✓	✓			0.5" & 0.4"	P	96x96x75

AK SERIES

AK-61	✓		✓		✓	✓		✓	✓	1	✓	✓			0.5"	P	96x48x75
AK-62	✓		✓		✓	✓		✓	✓	2	✓	✓			0.5"	P	96x48x75
AK-62V	✓		✓		✓	✓		✓	✓	2	✓	✓			0.5"	P	96x48x75

NOTE

- DIN Rail mount execution - D
- Panel mount execution - P

- Weather-proof execution - W
- Wall mount execution - A

- Flame-proof execution Aluminum Alloy - X
- Flame-proof execution Stainless Steel - S



PRODUCT SELECTION GUIDE (CONT.)

Model No.	Input							Output			Power Supply		Display		Execution	Dimensions [HxWxD] mm
	DC Current	AC Current	DC Voltage	AC Voltage	Thermo-couple	RTD Pt-100	RS-485	DC Current	RS-485	Relays	AC Voltage	DC Voltage	LCD Display	LED Display		
	L	U	V	H	T	R	M	G	M	4	A	D	C	E		

ApH-SERIES

ApH-413			pH			✓		✓	✓	2	✓		16 x 2 OLED		P	96x96x55
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DX-SERIES

DX-400	✓	✓	✓	✓		✓		✓			✓	✓		0.5"	P	48x96x75
DX-402	2x L	2x U	2x V	2x H							✓	✓		0.5"	P	96x96x110
DX-404	4x L	4x U	4x V	4x H	✓						✓	✓		0.5"	P	96x192x150
DXU-409	✓	✓						✓			✓	✓		0.5"	P	48x96x110

BMX-SERIES

BMX-20	✓							✓			✓			-	P	80x160x150
BMX-21	✓							✓		1	✓			0.3"	P	80x160x150
BMX-22	✓							✓		2	✓			0.3"	P	80x160x150

VX-SERIES

VX-65	✓						✓	✓	✓	2	✓	✓		0.5"	D	75x55x110
VX-72	✓		✓		✓	✓		✓		2	✓	✓		0.5" / 0.4"	D	75x55x110

PX-SERIES

PX-72	✓		✓		✓	✓		✓	✓	2	✓	✓		0.5" / 0.4"	P	96x96x110
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CY-SERIES

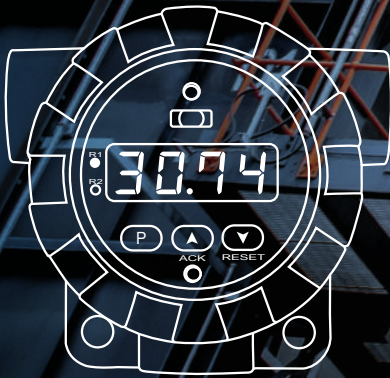
CY-40	✓		✓	✓	✓	✓		✓			✓	✓		0.5"	P	72x72x55
CY-42	✓		✓	✓	✓	✓		✓		2	✓	✓		0.5"	P	72x72x55
CY-50	✓		✓	✓	✓	✓		✓			✓	✓		0.3"	P	48x48x75
CY-52	✓		✓	✓	✓	✓		✓		2	✓	✓		0.3"	P	48x48x75
CY-60	✓		✓	✓	✓	✓		✓			✓	✓		0.5"	P	48x96x55
CY-62	✓		✓	✓	✓	✓		✓		2	✓	✓		0.5"	P	48x96x55
CY-65	✓						✓	✓	✓	2	✓	✓		0.5"	P	48x96x55
CY-70	✓		✓	✓	✓	✓					✓	✓		0.5"	P	96x96x55
CY-72	✓		✓	✓	✓	✓		✓		2	✓	✓		0.5"	P	96x96x55
CY-76	✓				✓					3	✓	✓		0.5"	P	96x96x110
CY-80	✓		✓	✓	✓	✓		✓			✓	✓		4"	A	160x435x70
CY-82	✓		✓	✓	✓	✓		✓		2	✓	✓		4"	A	160x435x70
CY-90	2x L					2x R		2x G	✓	4	✓	✓		0.5"	P	96x96x110
CY-92	2x L					2x R		2x G	✓	4	✓	✓		0.5"	P	96x96x110

NOTE

- DIN Rail mount execution - D
- Panel mount execution - P

- Weather-proof execution - W
- Wall mount execution - A

- Flame-proof execution Aluminum Alloy - X
- Flame-proof execution Stainless Steel - S



Digital Indicators and Controllers

FIELD MOUNT EXECUTION



**Digital Indicator Module
JX-40 M**

- 4-20 mA DC Current, DC Voltage, RTD (Pt-100) or Thermocouple Input options
- Analog retransmission output
- 24 VDC Auxiliary output power option for Transmitter
- 4 digit seven segment LED display



**Digital Indicator Controller Module
JX-42 M**

- 4-20 mA DC Current, DC Voltage, RTD (Pt-100) or Thermocouple Input option
- Up to 2 control relay outputs
- Analog retransmission output
- 24 VDC Auxiliary output power option for Transmitter



**Digital Indicator (Flameproof)
JX-40 X**

- 4-20 mA DC Current, DC Voltage, RTD (Pt-100) or Thermocouple Input option
- PESO certified flame-proof enclosure
- Analog retransmission output
- AC or DC Power Supply option



**Digital Indicator Controller (Flameproof)
JX-42 X**

- 4-20 mA DC Current, DC Voltage, RTD (Pt-100) or Thermocouple Input option
- Up to 2 control relay outputs
- IP66 PESO certified Flameproof enclosure
- AC or DC Power Supply option
- Suitable for Gas Groups IIA/IIB



**Digital Indicator Controller (Flameproof)
JX-42 S**

- 4-20 mA DC Current, DC Voltage, RTD (Pt-100) or Thermocouple Input option
- Stainless Steel SS316 die-cast enclosure
- Up to 2 control relay outputs
- Analog Retransmission Output with 24 VDC Auxiliary output power option
- Suitable for Gas Groups IIA/IIB/IIC



**Digital Ind'r Controller (Weatherproof)
JX-42 W**

- 4-20 mA DC Current, DC Voltage, RTD (Pt-100) or Thermocouple Input option
- Up to 2 control relay outputs
- IP66 Industrial grade Polycarbonate enclosure with safety glass window.
- AC or DC Power Supply options



FIELD MOUNT EXECUTION



Modbus Ind'r Controller (Flameproof) JX-67

- Analog signal or RS-485 Modbus protocol input option
- Analog signal or RS-485 Modbus protocol output option
- Up to 2 control relay outputs
- Bright 8x2 Alphanumeric OLED display



PID Controller (Flameproof) JX-72

- 4-20 mA DC, 0-10 V DC, RTD Pt-100 and Thermocouple J,K,R,S Input selection
- Universal input selection options
- Auto and Manual PID tuning option
- 4 to 20 mA DC Retransmission / PID control output (selectable)
- RS-485 on Modbus RTU communication



Dual channel Indicator Controller JX-92

- 4-20 mA DC / RTD-Pt-100 Input signal options
- 4-20 mA DC Retransmission output for each input
- Two Relay change over contacts per channel
- Data communication on RS-485 Modbus RTU protocol

PRODUCT SELECTION GUIDE

JX-SERIES FIELD MOUNT DIGITAL INDICATORS AND CONTROLLERS

Model No.	Input							Output			Power Supply		Display		Execution	Dimensions mm [HxWxD]
	DC Current	AC Current	DC Voltage	AC Voltage	Thermo-couple	RTD Pt-100	RS-485	Current	RS-485	Relays	AC Voltage	DC Voltage	LCD Display	LED Display		
	L	U	V	H	T	R	M	G	M	4	A	D	C	E		
JX-42 M	✓					✓		✓		2	✓	✓		✓	M	72x20
JX-42 X	✓					✓		✓		2	✓	✓		✓	X	130x140x130
JX-42 W	✓					✓		✓		2	✓	✓		✓	W	90x100x93
JX-42 S	✓					✓		✓		2		✓		✓	S	125x125x115
JX-67	✓						✓	✓	✓	2	✓	✓	✓		X	130x140x130
JX-72			✓		✓	✓		✓	✓	2	✓	✓		✓	X	130x140x130
JX-90	✓					✓		✓	✓			✓			X	130x140x130
JX-92	✓					✓		✓	✓	4		✓		✓	X	130x140x130

NOTE

- Modular execution - M
- Weather-proof execution - W
- Flame-proof Aluminum Alloy - X
- Flame-proof Stainless steel - S



Temperature Scanners and Data Loggers

TEMPERATURE SCANNERS



**Single Channel Data Logger
VZ-70**

- 4-20 mADC input
- Up to 16 GB micro SD module card for high memory storage
- Data scanning and logging on removable SD card
- Compact DIN Rail Mount execution



**Temperature Scanner - 2 channel
VZ-72**

- Two RTD (Pt-100) three wire sensor inputs
- Up to two control relay outputs
- Standard DIN Rail mounting enclosure
- Universal AC power Supply



**Temperature Scanner - 4 channel
MAX-4U**

- Analog RTD Pt-100 (3-wire) and Thermocouples type J,K,R,S input signal options
- Four Relay outputs - one per channel
- Data communication on RS-485 Modbus RTU protocol
- Four 4-20 mA DC retransmission outputs (one per channel)



**Temperature Scanner - 8 channel
MAX-8U**

- Analog RTD Pt-100 (3-wire) and Thermocouples type J,K,R,S input signal options
- Up to four freely assignable Relay outputs
- Data communication on RS-485 Modbus RTU protocol
- Two Analog Retransmissions



**Temperature Scanner - 16 channel
MAX-16U**

- Analog RTD Pt-100 (3-wire) and Thermocouples type J,K,R,S input signal options
- Up to four freely assignable Relay outputs
- Two Analog Retransmissions
- Extension board for input connections



**Temperature Scanner - 16 channel
MAX-16X**

- Sixteen freely assignable Relay outputs
- Analog RTD Pt-100 (3-wire) and Thermocouples type J,K,R,S input signal options
- Two Analog Retransmissions
- Extension board for relay connections



PRODUCT SELECTION GUIDE

MAX AND VZ SERIES TEMPERATURE SCANNERS

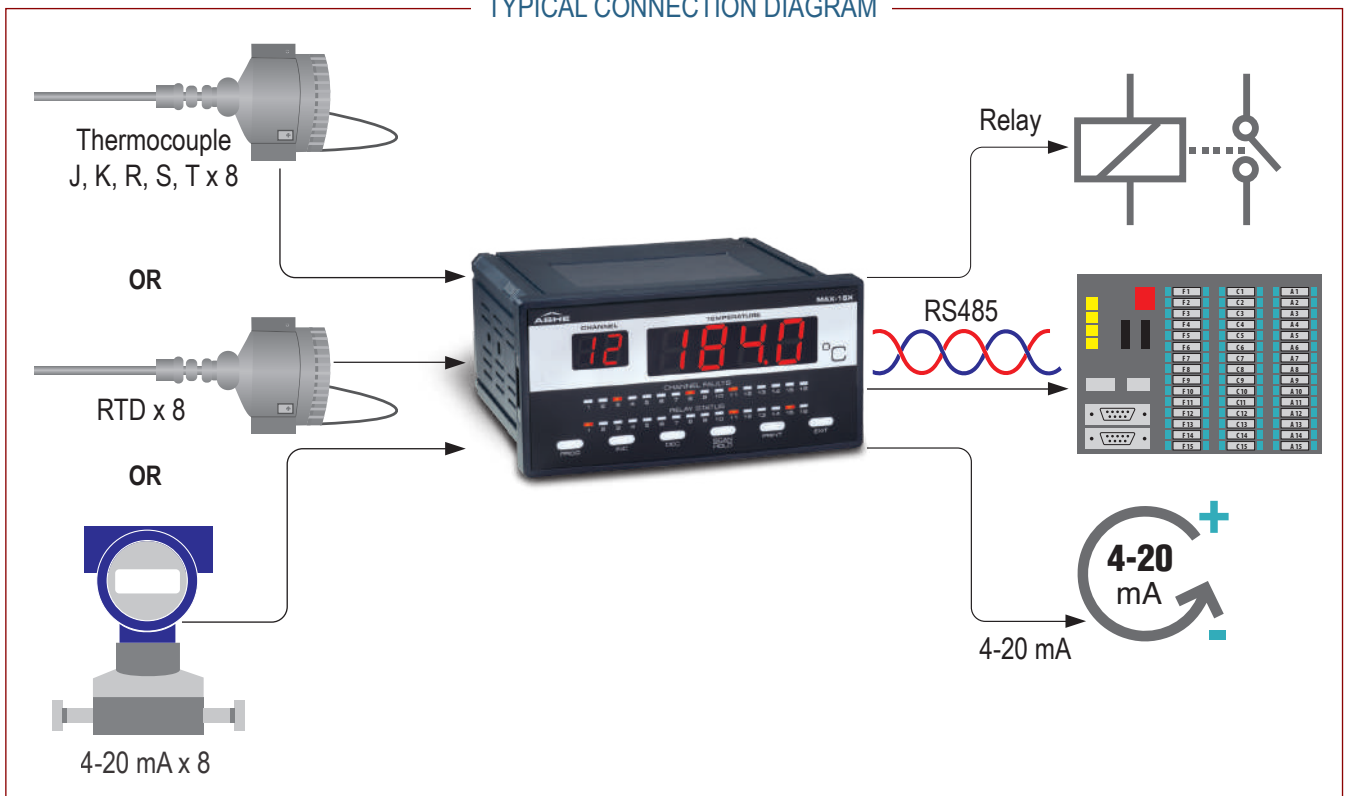
Model No.	Input							Output			Power Supply		Execution	Dimensions [HxWxD] mm
	DC Current	AC Current	DC Voltage	AC Voltage	Thermocouple	RTD	RS-485	Current	RS-485	Relays	AC Voltage	DC Voltage		
	L	U	V	H	T	R	M	G	M	4	A	D		
VZ-70	☑							☑				☑	D	75x55x110
VZ-72					☑	☑		☑		2	☑	☑	D	75x55x110
MAX-4U	☑				☑	☑		☑	☑	4	☑	☑	P	96x96x110
MAX-8U	☑				☑	☑		☑	☑	4	☑	☑	P	96x96x110
MAX-16U	☑				☑	☑		☑	☑	4	☑	☑	P	96x96x110
MAX-16X	☑				☑	☑		☑	☑	16	☑	☑	P	80x160x150

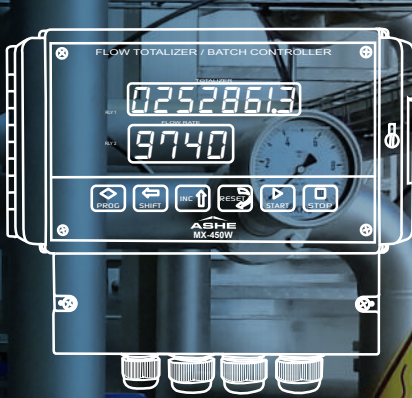
NOTE

■ DIN Rail execution - D

■ Panel mount execution - P

TYPICAL CONNECTION DIAGRAM





Flow Totalizers and Batch Controllers

FLOW TOTALIZERS



**Flow Totalizer / Batch Controller
MX-450**

- Analog / Pulse input selection option
- 4 digit Flow Rate + 8 digit Flow Total
- Two control Relay change-over contacts assignable to Flow rate or Total
- Retransmission and RS-485 on Modbus RTU data communication



**Flow Totalizer / Batch Ctr (Weatherproof)
MX-450 W**

- Analog / Pulse input selection option
- 4 digit flow Rate + 8 digit Flow Total
- Auxiliary power supply option
- IP65 Industrial grade ABS enclosure



**Flow Totalizer / Batch Controller
MX-460**

- Analog / Pulse input selection option
- 5 digit flow Rate + 8 digit Flow Total
- Two control Relay change-over contacts assignable to Flow rate or Total
- Retransmission and RS-485 on Modbus RTU data communication



**Flow Totalizer / Batch Controller
MX-45**

- 4-digit Flow rate + 6 digit Flow Total
- Ex-d certified Flameproof enclosure
- Retransmission output option
- Two control Relay change-over contacts



**Flow Totalizer / Batch Controller
MX-450 X**

- 4 digit Flow Rate + 8 digit Flow Total
- Analog / Pulse input selection
- Two Relay change-over contacts
- Data communication on RS-485 on Modbus RTU



**Flow Totalizer / Batch Controller
MX-460 X**

- 5 digit Flow Rate + 8 digit Flow Total
- Analog/Pulse input signal
- Two control Relay change-over contacts
- AC or DC power supply option



PRODUCT SELECTION GUIDE

MX-SERIES FLOW TOTALIZERS

Model No.	Input		Output			Power Supply		Execution	Dimensions [HxWxD] mm
	DC Current	Frequency	DC Current	RS-485	Relays	AC Voltage	DC Voltage		
	L	F	G	M	4	A	D		
MX-450	✓	✓	✓	✓	2	✓	✓	P	96x96x75
MX-460	✓	✓	✓	✓	2	✓	✓	P	96x96x75
MX-450 W	✓	✓	✓	✓	2	✓	✓	W	166x161x121
MX-450 X	✓	✓	✓	✓	2	✓	✓	X	350x250x250
MX-460 X	✓	✓	✓	✓	2	✓	✓	X	350x250x250
MX-45	✓	✓	✓	✓	2		✓	X	100x110x95

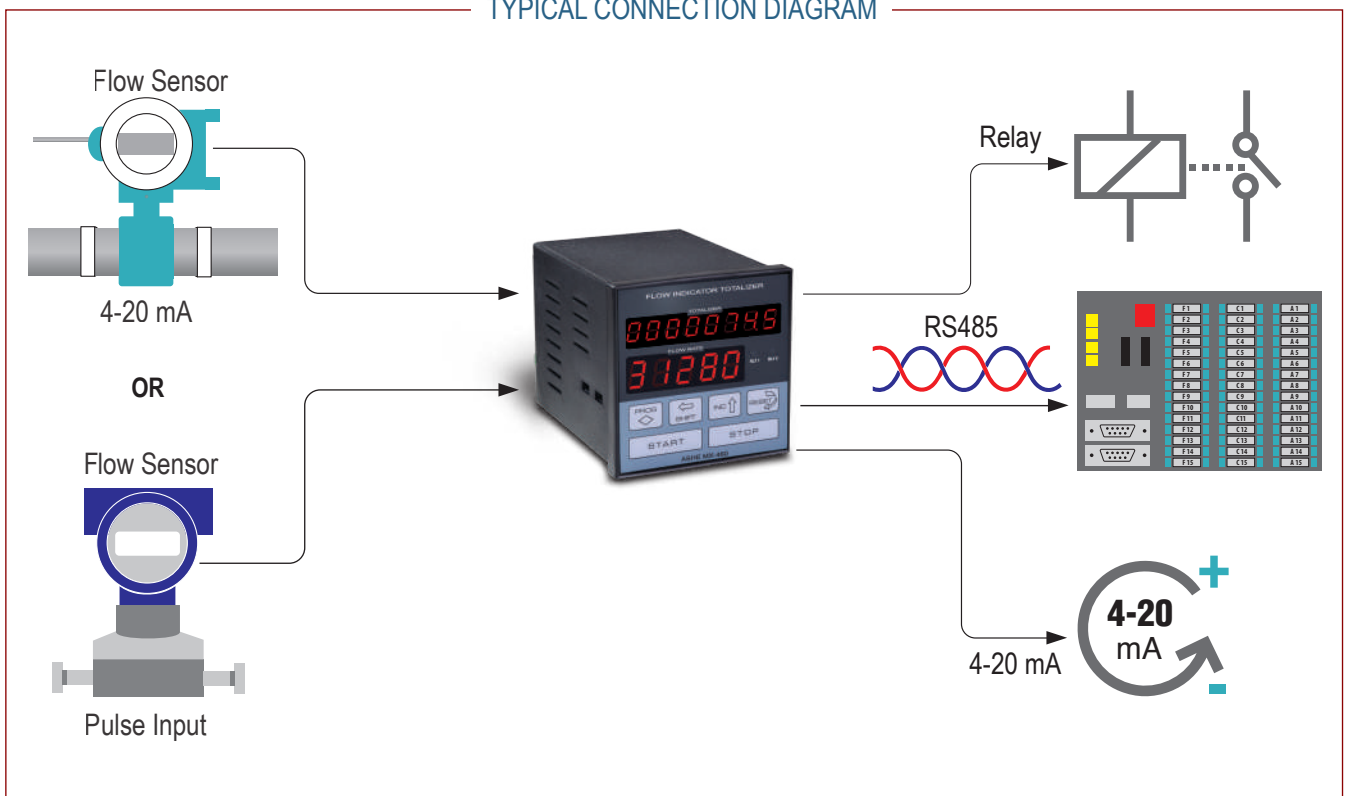
NOTE

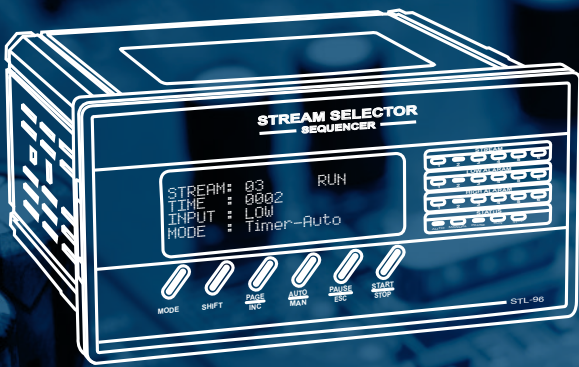
■ Panel mount execution - P

■ Weather-proof execution - W

■ Flame-proof execution Aluminum Alloy - X

TYPICAL CONNECTION DIAGRAM





Stream Selectors / Sequencers

MULTI CHANNEL STREAM SELECTORS



Stream Selector STL-92

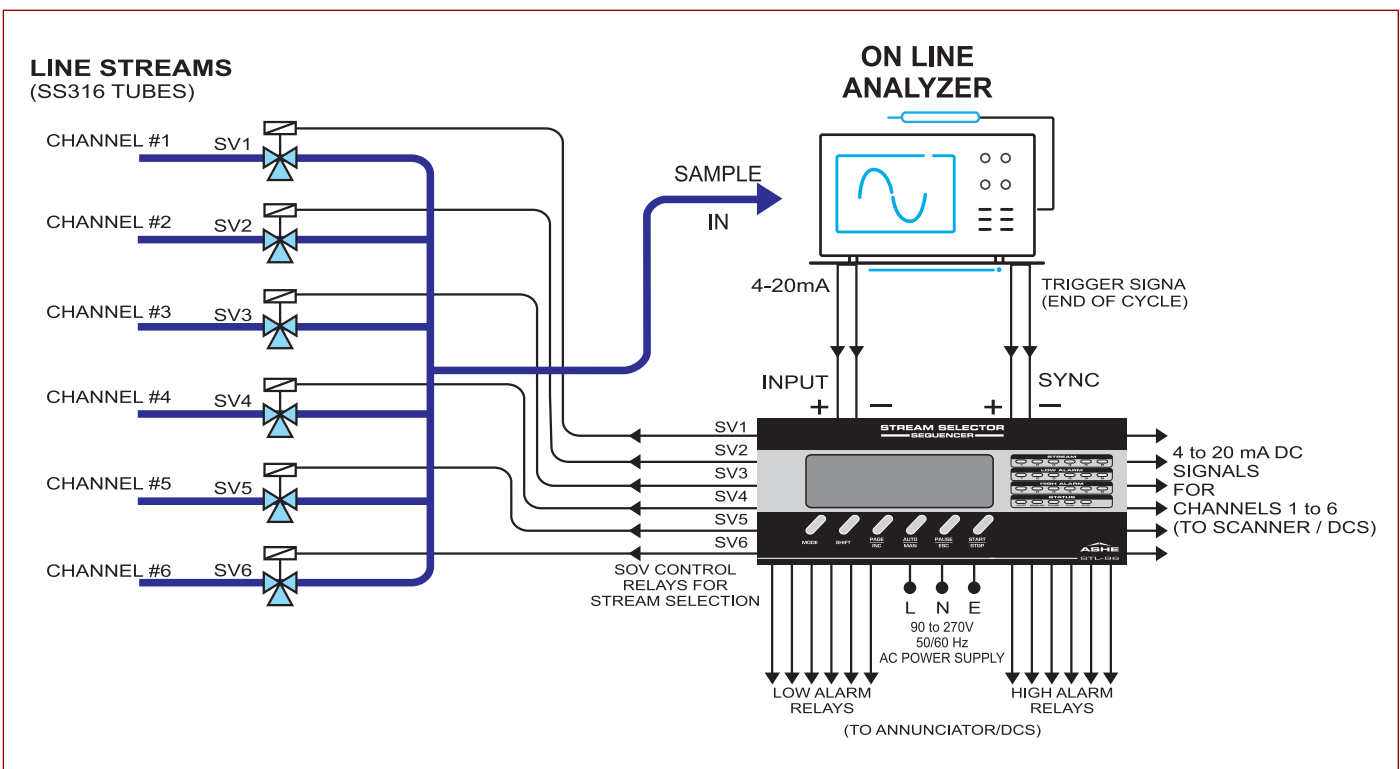
- Upto Two Stream selection option
- 20 character x 4 line OLED display
- Retransmission for each stream signal
- Three control relay outputs for each channel

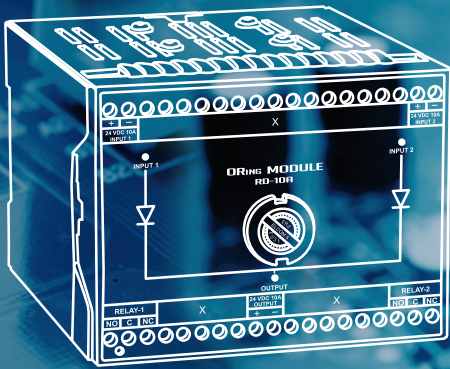
Stream Selector STL-94

- Upto Four Stream selection option
- Three control Relay outputs per channel
- Time and Pulse mode operation
- Sample and Hold facility for non-active channels

Stream Selector STL-96

- Upto Six Stream selection option
- Three control relay outputs for each channel
- Sample and Hold facility for non-active channels
- 20 character x 4-line OLED Display





ORing Diode Modules and Power Supply Units

DIODE REDUNDANCY MODULES



Diode ORing Module RD-5A

- Diode ORing for dual SMPS Redundancy
- DIN Rail mount Polycarbonate enclosure
- Fuse protection for high current
- Up to 5A current rating



Diode ORing Module RD-10A

- Diode ORing for dual SMPS Redundancy
- Fuse protection for high current
- Up to 10A current rating
- Industrial grade Polycarbonate enclosure



Diode ORing Module RD-10A-M

- Diode ORing for dual SMPS Redundancy
- DIN Rail mount execution in Metal enclosure
- Up to 10 A current rating
- LED indications for Input and Output Voltage

POWER SUPPLY UNITS



Diode ORing Module RD-20A-M

- Diode ORing for dual SMPS Redundancy
- DIN Rail mount execution in Metal enclosure
- Up to 20A current rating
- LED indications for Input and Output Voltage



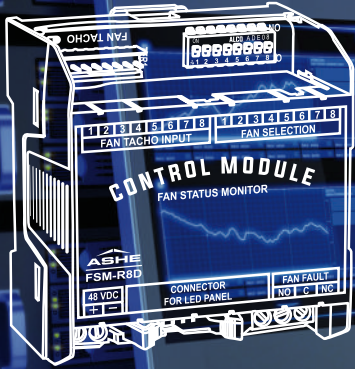
SMPS Power Supply Unit SX-2402

- Load Rating of 2.5 Ampere
- Reliable Current-Mode PWM power control
- Short-Circuit and Overload protection
- Compact and rugged enclosure



SMPS Power Supply Unit SX-2405

- Load Rating of 5 Ampere
- Reliable Current-Mode PWM power control
- Universal AC Power supply
- Galvanic isolation upto 3kV



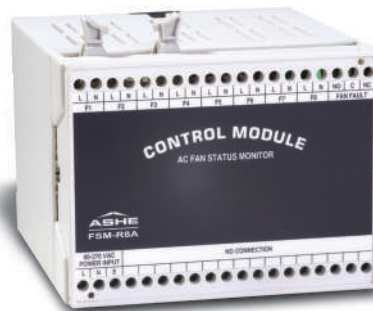
Fan Monitoring Controllers

FAN SPEED MONITORS AND CONTROLLERS



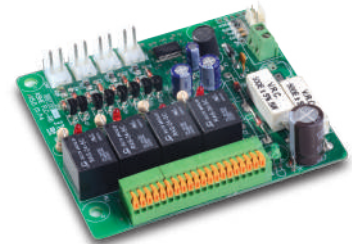
FAN Monitoring Modules FMC-R2

- Dynamic Fan operation supervision
- Ambient temperature monitoring, indication and retransmission
- Options of two AC or DC Fans
- Alarm relays for temperature and Fan faults
- Three-digit temperature display



Fan Status Monitor FSM-R8A

- Simultaneous monitoring of up to eight AC Fans
- Bicolor LED indication for status of all Fans
- Easy Fan selection option by DIP switches
- Extended bi-color LED panel for door mounting



DC Fan Speed Control Modules FLC-R2

- Fan monitoring and control for 2 to 6 Fans
- Temperature monitored DC Fan speed control
- Control of 3-wire or 4-wire DC Fans
- Interlock of Door Switch, Smoke Detector, Blocked Rotor, etc. for Rack safety monitoring



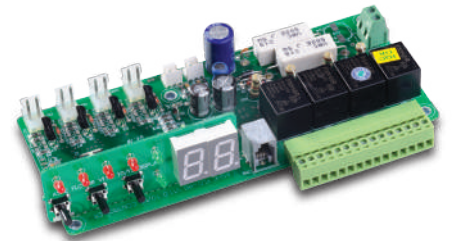
FAN Monitoring Modules FMC-R4

- Dynamic Fan operation supervision
- Ambient temperature monitoring, indication and retransmission
- Four AC or DC Fans options
- Alarm relays for temperature and Fan faults
- RS-485 Modbus RTU Protocol



Fan Status Monitor FSM-R8D

- Simultaneous monitoring of up to eight DC Fans
- Easy Fan selection option by DIP switches
- Status indication of normal and alarm conditions
- Extended bi-color LED panel for door mounting



DC Fan Speed Control Modules FLC-R4

- Fan monitoring and control for 2 to 6 Fans
- Digital indication of rack temperature
- Control of 3-wire or 4-wire DC Fans
- Data communication on Modbus RTU



Temperature and Humidity Indicators

REL HUMIDITY+TEMPERATURE INDICATORS AND CONTROLLERS



Rel Humidity & Temp Contr. + RH Probe AHT-74

- Humidity and Temperature Indication
- Relay Control and Retransmission for RH and Temp
- Extended Probe for RH and Temp
- Up to four control relay outputs



Thermostat TM-50

- Built-in precision Temperature Sensor
- Digital display for temperature indication
- Single Relay control output
- Analog Retransmission option



RH+T Indicator Transmitter HTR-92

- Bright OLED Display for both parameters
- Data communication on Modbus RTU
- Built-in precision RH+T Sensor
- Two 4 to 20 mA retransmission signals for RH and Temperature



Compact RH+Temp Indicator HTI-90

- Bright OLED alphanumeric Display
- AC power supply operation with power adaptor
- Built-in precision RH and Temperature Sensors
- Dual Temperature Sensor option with extendable cable



Compact Temperature Controller TM-52

- Built-in precision Temperature Sensor
- Dual Relay control outputs
- Analog Retransmission option
- Digital display for temperature indication



Thermostats for Panels ATS-40

- Built-in precision Temperature Sensor
- Digital indication of temperature
- Compact DIN Rail mount execution
- Lower and upper temperature level monitoring



Gas Monitoring Instruments

SINGLE AND MULTI CHANNEL GAS MONITORS



CO Gas Monitoring System CO-SAFE

- Analog input from gas sensor with retransmission and RS-485 Modbus outputs
- 2" digital display for Gas level
- Four control relay outputs - for Alarms and Fault Inhibit
- Data logging with removable micro SD card



Digital Ind. Controllers (Flameproof) JX-42

- 4 to 20mA input from Gas sensor with Retransmission
- Up to two control relay outputs
- PESO certified flame proof Al Die-cast enclosure
- AC/DC power supply options



Loop Powered Indicator for Gas level JM-408

- 4 to 20mA input from Gas sensor
- 4-digit seven segment LED or LCD display options
- PESO certified flame proof Al Die-cast enclosure
- Intrinsically Safe Ex-i certified design



Loop Powered Indicator with control JM-43

- 4 to 20 mA DC current loop powered display (24VDC external power supply required for Relay driving).
- PESO certified Exd and IP66 Flameproof enclosure
- 4 digit, 0.7" LCD seven-segment display
- Three control Relay potential free contacts



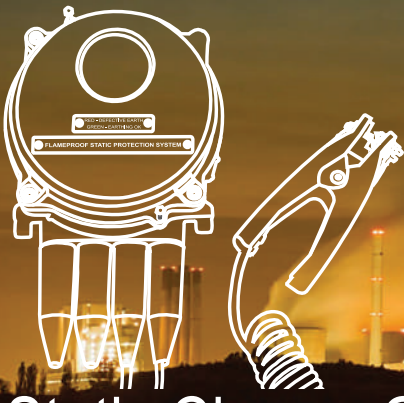
Gas Monitoring Unit, 8 channel GGM-8

- 24 Gases and 7 units freely customizable for each channel
- 8x 4 to 20 mADC Retransmission signal (one for each channel)
- 7" Touch screen HMI Display for Operator interface
- Four control relay outputs- three for alarms and one for Fault / Inhibit
- RS-485 Modbus RTU output



Gas Monitoring Unit, 16 channel GGM-16

- 24 Gases and 7 units freely customizable for each channel
- 16x 4 to 20 mADC Retransmission signal (one for each channel)
- 7" Touch screen HMI Display for Operator interface
- Four control relay outputs- three for alarms and one for Fault / Inhibit
- RS-485 Modbus RTU output



Static Charge Grounding Relays

TANKER SAFE-GROUNDING EARTHING RELAYS



Resistance based FLP Earthing Relay SGR-250 X

- Microcontroller based Intrinsically Safe Exi certified design
- Vehicle Recognition system
- PESO certified Exd Explosion-proof enclosure
- Safety Relay interlock for loading/unloading operations



Res. + Cap. based FLP Earthing Relay ISGR-820 X

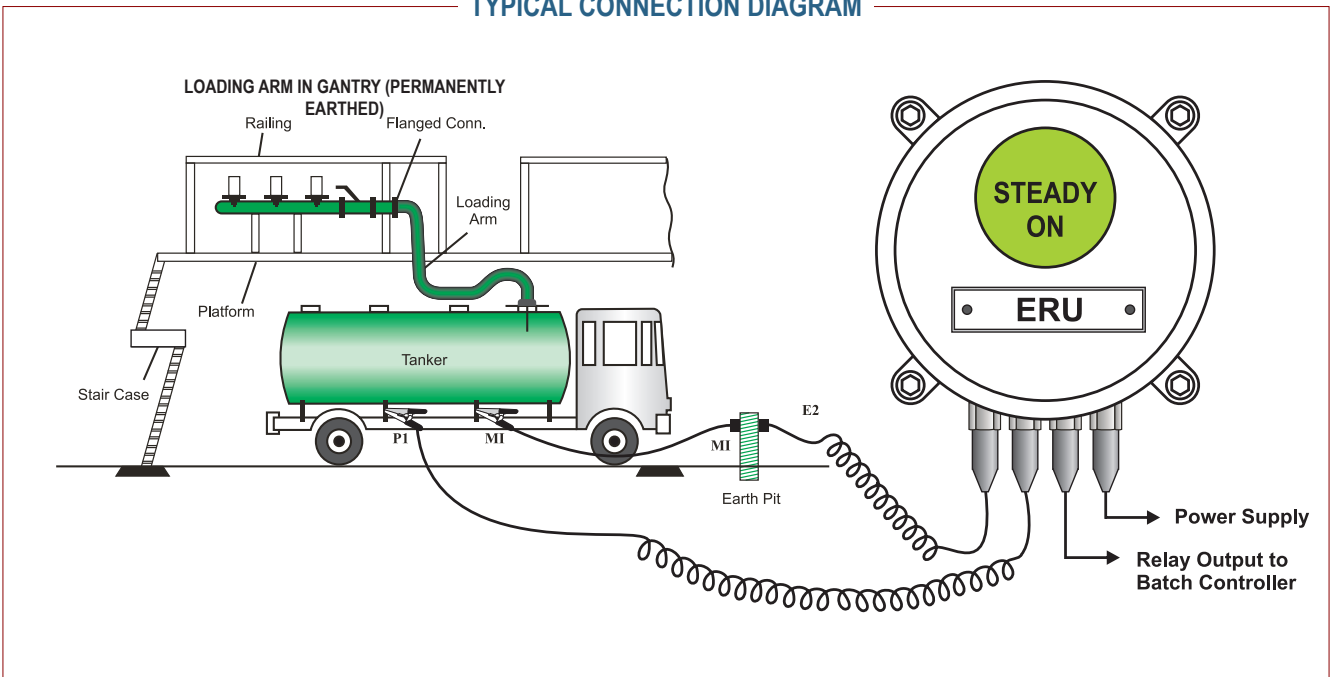
- Microcontroller based Intelligent Vehicle recognition system
- Intrinsically-safe Ex-i certified design
- PESO certified Exd flameproof enclosure
- Data communication on RS485 Modbus RTU.

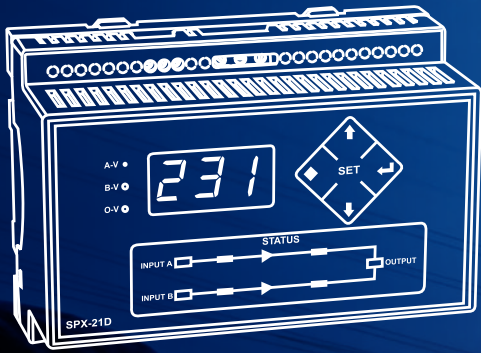


Resistance based Earthing Relay Module SGR-250 M

- Microcontroller based intrinsically safe Exi certified design
- Vehicle Recognition system
- Two or five relay changeover contacts option
- Alarm indication on front panel

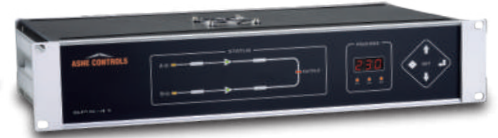
TYPICAL CONNECTION DIAGRAM





Automatic Transfer Switches (ATS)

STATIC POWER SWITCHING UNITS



Static Power Switch - 21 Ampere SPX-21

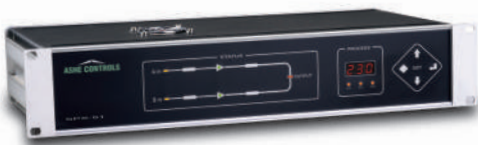
- Up to 21 Ampere load current rating
- Ultra-high speed Opto-Thyristor switching of inputs
- Digital Display for Input Voltages and Output Current monitoring
- 110 VAC / 230 VAC Single Phase Power Supply inputs

Static Power Switch - 31 Ampere SPX-31

- Up to 31 Ampere load current rating
- 110 VAC / 230 VAC Single Phase Power Supply inputs
- Ultra-high speed Opto-Thyristor switching
- One Control Relay output for remote power fail alarm

Static Power Switch - 41 Ampere SPX-41

- Up to 41 Ampere load current rating
- Control Relay output for remote power fail alarm
- Ultra-high speed Opto-Thyristor switching
- Automatic recovery after power failure resumption



Static Power Switch - 51 Ampere SPX-51

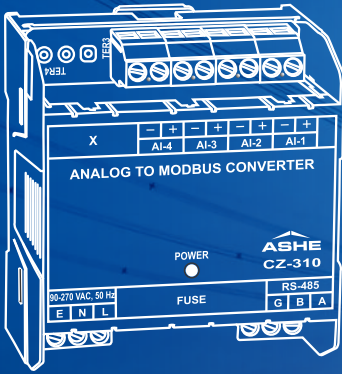
- 110 VAC / 230 VAC Single Phase Power Supply inputs
- Relay change over contacts on Input switching
- Up to 51 Ampere load current rating
- Automatic recovery after power failure resumption

Static Power Switch - 61 Ampere SPX-61

- Upto 65 Ampere maximum load rating
- Ultra high speed Opto-Thyristor switching
- 110 VAC / 230 VAC Single Phase Power Supply inputs
- Control Relay output for remote power fail alarm

Static Power Switch - 21 & 31 Ampere SPX-21D and 31D

- Up to 21 Ampere and 31 Ampere load current rating
- Industrial grade DIN Rails mounting ABS enclosure
- Digital Display for Input Voltages and Output Current monitoring
- 110 VAC / 230 VAC Single Phase Power Supply



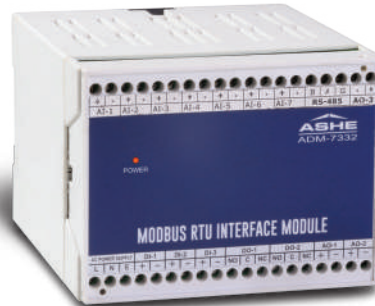
Modbus Converters and Fuse Failure Relays

ANALOG+DIGITAL SIGNALS TO MODBUS RTU/TCP CONVERTERS



Modbus Converters ADM-48

- 5-Analog input signals and 8-Digital input signals
- Modbus RTU or Modbus TCP/IP protocol Output
- Isolation level of 1500 V AC for Digital inputs.
- Compact DIN Rail mount execution



Modbus RTU Interface Module ADM-7332

- 7-Analog input signals and 3-Digital input signals
- 3 Analog output signals
- Two control relay outputs
- Modbus RTU or Modbus TCP/IP protocol Output



Modbus Interface Modules CZ-310

- 4-Analog input signals
- Modbus RTU or Modbus TCP/IP protocol Output
- Universal AC Power Supply
- Compact DIN Rail mount execution

FUSE FAILURE RELAYS



Fuse Failure Relay, 6-channel FFR-6

- 6 Fuse monitoring
- 0 to 230 V AC/DC Input
- LED indications for Fuse status
- One Control Relay output



Fuse Failure Relay, 8-channel FFR-8

- 8 Fuse monitoring
- LED indications for Fuse status
- 0 to 230 V AC/DC Input
- Compact DIN Rail mount execution



Fuse Failure Relay, 10-channel MFR-10

- 10 Fuse monitoring
- 0 to 750 V AC/DC Input
- Two Control Relay outputs
- Extension board for Input connections



Application Specific Instruments

CUSTOMISED PRODUCTS



GPS Based Current Interrupt Timer AC-82G

- Synchronous switching for multiple Cathodic Protection Rectifier units
- RTC timer synchronized to atomic clock by GPS
- 8-key tactile membrane keypad
- Bright dual line OLED Display
- RTC battery backup



Ammeter Modules DAX-V1

- Current measurement of power strip
- Offered for various Current ratings (32A, 63A, etc)
- External CT included
- Audio beeper for high current alarm



Three Zone Temperature Indicator 3ZTC

- Sequential temperature indication of three levels within panel
- Three temp sensors with extended cable
- Panel door mount digital display module
- Precision temperature monitoring



Smoke and Fire Alarm Unit FAU-02

- Continuous monitoring of smoke and fumes by Ionization and Optical smoke detector
- Bright LED window with audio hooter to indicate alarms
- Alarm acknowledgement from front panel
- Slim Rack-mount execution instruments



Keypad Lock CL-1

- Access control of Server Racks
- Five digit numeric code security
- Master over-ride code for emergency access
- Solenoid output for door latching



Membrane Keyboard (User Config keys) AK-132M

- Standard 107- keys with 32 additional configurable keys
- Touchpad Mouse or Trackball control options
- Tactile and Non-tactile membrane keys options
- Desk top or Flush-panel mounting execution

Focus on Quality

At Ashe Controls, quality is at the core of everything we do. We firmly believe that quality is not just limited to our products, but it extends through our entire value chain. From carefully sourcing the electronic components to evaluating our people, we ensure that every aspect of our business meets the highest standards of quality. Our manufacturing units, products, processes, and techniques are constantly monitored, evaluated, and improved to ensure that we are always exceeding industry benchmarks for quality and processing standards. We are committed to delivering products that meet the highest standards of quality, and we take great pride in our dedication to this pursuit.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ CERTIFICADO ◆ CERTIFICAT



CERTIFICATE

The Certification Body
 of TÜV SÜD South Asia Private Limited
 certifies that



Ashe Controls Private Limited
 6/203, 204, 317, 318 & 319, Jogani Industrial Complex,
 Near ATI, Sion – Chunabhatti, Mumbai – 400 022, India

has implemented Quality Management System
 in accordance with **ISO 9001:2015**
 for the scope of


**Manufacture & Supply of Instrumentation Products,
 Industrial Electronic Control Systems and Related Accessories.**

The certificate is valid from **2023-01-03** until **2026-01-02**
 Subject to successful completion of annual periodic audits
 The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of this certificate may be obtained by consulting the certification body at info.in@tuv sud.com

Certificate Registration No. **99 100 20573**
 Date of Initial certification: **2020-01-03**
 Issue Date: **2022-12-26 Rev. 00**



Rahul Kale
 Head of Certification Body
 of TÜV SÜD South Asia Private Limited,
 Mumbai
 Member of TÜV SÜD Group





TÜV SÜD South Asia Pvt. Ltd. • TÜV SÜD House • Saki Naka • Andheri (East) • Mumbai – 400072 • Maharashtra • India

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Ajay Bhargava
 Managing Director


Chandrasekar Kadabur
 Vice President
 Operations


Ananda, H
 DGM
 Supply Chain Management

Place: ITC Windsor Manor, Bangalore
 Date: 21st January 2015

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