

Industrial Automation

Product Guide



A Message from the President

*"As we brought Red Lion, N-Tron and Sixnet together,
we have become a better company, not just a bigger one."*

Mike Granby
President, Red Lion Controls



Please allow me to start by saying thank you to the thousands of customers all over the world who place their trust in the products and reputation of Red Lion®, N-Tron® and Sixnet®. We appreciate your business and look forward to serving you at even higher levels in the future.

We have recently gone through some exciting changes, merging N-Tron and Sixnet together into a bigger, better Red Lion. Each company had its own legacy and its own strengths, and together we now offer an industry-leading portfolio of industrial automation and networking products. The long and trusted history of Red Lion and Sixnet in the automation market is a perfect complement to N-Tron's mastery of industrial networking, and to Sixnet's recent developments in the fields of cellular and machine-to-machine communications.

As we brought Red Lion, N-Tron and Sixnet together, we have become a better company, not just a bigger one. We recognize that you, the customer, is what matters, and that any merger only makes sense if it is able to put better solutions and products in your hands. We are dedicated to being your global experts in communication, monitoring and control for industrial automation and networking—and to doing so with the exceptional levels of service for which Red Lion is well known.

Over the last year, we have launched a bigger and better product portfolio. In addition to the panel meters, HMIs and other industrial automation products that Red Lion customers have always trusted, we now offer a broad selection of communication technologies, ranging from industrial Ethernet, through Wi-Fi to complete cellular M2M solutions.

The end result? A comprehensive set of products that enables you to connect, monitor and control anything. From one device to a thousand devices. Connecting serially, via Ethernet, or over high-speed wireless networks. Speaking one protocol, or hundreds of protocols. On a single machine, across your factory, or spanning multiple sites all over the globe.

Thank you again, and we look forward to further supporting you as we continue our journey as one unified Red Lion.

A handwritten signature in black ink, appearing to read "Mike Granby". The signature is stylized and fluid, with a long, sweeping underline that extends to the right.



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HMI Operator Panels

Powerful multi-protocol support enables communication between 300+ industrial protocols. Configured with the award-winning, easy-to-use Crimson® software, which is included at no additional cost.

- > Convert between 300+ industrial protocols
- > Collect, store and display data
- > Easily integrate into multi-vendor environments
- > Configure using Crimson software



Graphite® Rugged Advanced HMIs



- > Unparalleled expansion capabilities using plug-in modules
- > Wide -20° to 60°C operating temperature range
- > Rugged sunlight visible outdoor rated models
- > Support for 300+ industrial protocols, up to 12 simultaneous conversions
- > Built-in data logging (SD card), web server and FTP for remote access
- > Send email and/or SMS based on alarm conditions
- > All models UL Class 1, Division 2 Listed for hazardous locations



MODEL NUMBER	INDOOR/ OUTDOOR	DISPLAY SIZE	DISPLAY	SERIAL PORTS	ETHERNET PORTS	USB HOST	EXPANSION	CARD SUPPORT
G07C0000	Indoor	7"	800 x 480	3 iso.	1	2	5 Module Slots	SD Card
G07S0000	Outdoor	7"	800 x 480	3 iso.	1	2	5 Module Slots	SD Card
G09C0000	Indoor	9"	800 x 480	3 iso.	1	2	6 Module Slots	SD Card
G09C1000	Indoor	9"	800 x 480	3 iso.	2	2	6 Module Slots	SD Card
G10C0000	Indoor	10"	640 x 480	3 iso.	1	2	7 Module Slots	SD Card
G10C1000	Indoor	10"	640 x 480	3 iso.	2	2	7 Module Slots	SD Card
G10R0000	Indoor	10"	800 x 600	3 iso.	1	2	7 Module Slots	SD Card
G10R1000	Indoor	10"	800 x 600	3 iso.	2	2	7 Module Slots	SD Card
G10S0000	Outdoor	10"	640 x 480	3 iso.	1	2	7 Module Slots	SD Card
G10S1000	Outdoor	10"	640 x 480	3 iso.	2	2	7 Module Slots	SD Card
G12C0000	Indoor	12"	1280 x 800	3 iso.	1	2	8 Module Slots	SD Card
G12C1100	Indoor	12"	1280 x 800	4 iso.	2	2	8 Module Slots	SD Card
G15C0000	Indoor	15"	1024 x 768	3 iso.	1	2	8 Module Slots	SD Card
G15C1100	Indoor	15"	1024 x 768	4 iso.	2	2	8 Module Slots	SD Card

G3 Powerful Graphical HMIs

- > Support for 300+ industrial protocols
- > Built-in data logging (CF card), web server and FTP for remote access
- > Send email and/or SMS based on alarm conditions
- > Multiple connectivity options including serial, Ethernet and USB
- > All models UL Class 1, Division 2 Listed for hazardous locations



MODEL NUMBER	INDOOR/ OUTDOOR	DISPLAY SIZE	DISPLAY	SERIAL PORTS	ETHERNET PORTS	USB HOST	EXPANSION	CARD SUPPORT
G303M000	Indoor	3"	128 x 64	3	1	-	1 Card Slot	CF Card
G303S000	Outdoor	3"	128 x 64	3	1	-	1 Card Slot	CF Card
G306M000	Indoor	6"	320 x 240	3	1	-	1 Card Slot	CF Card
G306A000	Indoor	6"	320 x 240	3	1	Expansion Card	1 Card Slot	CF Card
G306MS00	Outdoor	6"	320 x 240	3	1	-	1 Card Slot	CF Card
G308C100	Indoor	8"	640 x 480	3	1	-	1 Card Slot	CF Card
G308A210	Indoor	8"	640 x 480	3 iso.	1	1	1 Card Slot	CF Card
G310C210	Indoor	10"	640 x 480	3 iso.	1	1	1 Card Slot	CF Card
G310R210	Indoor	10"	800 x 600	3 iso.	1	1	1 Card Slot	CF Card
G310R230	Indoor	10"	800 x 600	3 iso.	2	1	1 Card Slot	CF Card
G310S210	Outdoor	10"	640 x 480	3 iso.	1	1	1 Card Slot	CF Card
G310S230	Outdoor	10"	640 x 480	3 iso.	2	1	1 Card Slot	CF Card
G315C210	Indoor	15"	1024 x 768	3 iso.	1	1	1 Card Slot	CF Card
G315C230	Indoor	15"	1024 x 768	3 iso.	2	1	1 Card Slot	CF Card

G3 Kadet HMIs

- > Support for 300+ industrial protocols
- > Several connectivity options including serial and Ethernet



MODEL NUMBER	INDOOR/ OUTDOOR	DISPLAY SIZE	DISPLAY	SERIAL PORTS	ETHERNET PORTS	USB HOST	EXPANSION	CARD SUPPORT
G304K200	Indoor	4"	480 x 272	2	1	-	-	-
G307K200	Indoor	7"	800 x 480	3	1	-	-	SD Card

HMI Operator Panel Feature Comparison

FEATURES	GRAPHITE	G3 HMI	G3 KADET
Serial Ports	4*	4*	3*
Ethernet	2*	1	1
USB Host	2	1*	
Crimson Programmed	•	•	•
C-Type User Programming	•	•	
Protocol Converter	•	•	•
On-Display Keypad		•	
Web Server, FTP, Data Logging	•	•	
Expansion Card Slots	8*	1	
Wide Temp. Range	•		

* Model specific

Panel Meters

Red Lion offers the widest and most comprehensive line of panel meters in the industry. Our meters are available in various sizes and capabilities including count, rate, time, voltage, current, process, strain gage and temperature inputs. With over 4 million units sold, our panel meters are field proven, time tested and have earned the distinction of being consistently voted the industry's #1 brand by the readers of *Control Design* for 14 years and counting.

- > Over 40 years of proven reliability
- > Wide model range supports varying requirements
- > Field upgradeable I/O and communication cards



Panel Meter Feature Comparison

FEATURES	PAX2 SERIES	PAX SERIES	PAX LITE SERIES	C48 SERIES	CUB5 SERIES	CUB4 SERIES	CUB7 SERIES
Count	•	•	•	•	•	•	•
Count/Rate	•	•	•		•		
Rate	•	•	•		•		
Time		•		•	•		•
Current	•	•	•		•	•	
Process	•	•	•		•	•	
Voltage	•	•	•		•	•	
Strain Gauge	•	•	•				
Temperature	•	•	•		•	•	

PAX®2 1/8 DIN Advanced Universal Panel Meters



- > Digital or analog input models
- > Dual-line, tri-color display
- > Up to 16 alarms with color changing display
- > Many field-upgradeable modules including I/O and communication cards



MODEL NUMBER	FUNCTION
PAX2A000	Universal DC Analog Input Meter: DC Current, DC Voltage, Process, RTD, Thermocouple, Resistance
PAX2D000	Universal Digital Counter
PAX2S000	Strain Gage Meter

PAX 1/8 DIN Analog and Digital Panel Meters



- > Digital or analog input models
- > Up to four setpoint alarms
- > Optional communication cards include RS-232, RS-485, Modbus®, DeviceNet® and PROFIBUS-DP



Digital

MODEL NUMBER	FUNCTION	DISPLAY LENGTH	DISPLAY HEIGHT	LED	POWER	RETRANS. ANALOG	COMM. CAPABILITY
PAXI0020	Dual Counter or Count/Rate	6 Digit	0.56" (14 mm)	Red	AC	Yes	Yes
PAXI0030	Dual Counter or Count/Rate	6 Digit	0.56" (14 mm)	Red	DC	Yes	Yes
PAXI0120	Dual Counter or Count/Rate	6 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXI0130	Dual Counter or Count/Rate	6 Digit	0.56" (14 mm)	Green	DC	Yes	Yes
PAXC0020	Counter	6 Digit	0.56" (14 mm)	Red	AC	-	-
PAXC0030	Counter	6 Digit	0.56" (14 mm)	Red	DC	-	-
PAXC0120	Counter	6 Digit	0.56" (14 mm)	Green	AC	-	-
PAXC0130	Counter	6 Digit	0.56" (14 mm)	Green	DC	-	-
PAXR0020	Rate Meter	6 Digit	0.56" (14 mm)	Red	AC	-	-
PAXR0030	Rate Meter	6 Digit	0.56" (14 mm)	Red	DC	-	-
PAXR0120	Rate Meter	6 Digit	0.56" (14 mm)	Green	AC	-	-
PAXR0130	Rate Meter	6 Digit	0.56" (14 mm)	Green	DC	-	-
PAXCK000	Real-Time Clock	6 Digit	0.56" (14 mm)	Red	AC	-	Yes
PAXCK010	Real-Time Clock	6 Digit	0.56" (14 mm)	Red	DC	-	Yes
PAXCK100	Real-Time Clock	6 Digit	0.56" (14 mm)	Green	AC	-	Yes
PAXCK110	Real-Time Clock	6 Digit	0.56" (14 mm)	Green	DC	-	Yes
PAXTM000	Timer	6 Digit	0.56" (14 mm)	Red	AC	-	Yes
PAXTM010	Timer	6 Digit	0.56" (14 mm)	Red	DC	-	Yes
PAXTM100	Timer	6 Digit	0.56" (14 mm)	Green	AC	-	Yes
PAXTM110	Timer	6 Digit	0.56" (14 mm)	Green	DC	-	Yes

Analog

MODEL NUMBER	FUNCTION	DISPLAY LENGTH	DISPLAY HEIGHT	LED	POWER	RETRANS. ANALOG	COMM. CAPABILITY
PAXD0000	Universal DC Analog Meter	6 Digit	0.56" (14 mm)	Red	AC	Yes	Yes
PAXD0010	Universal DC Analog Meter	6 Digit	0.56" (14 mm)	Red	DC	Yes	Yes
PAXD0100	Universal DC Analog Meter	6 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXD0110	Universal DC Analog Meter	6 Digit	0.56" (14 mm)	Green	DC	Yes	Yes
PAXDP000	Dual Process Meter	6 Digit	0.56" (14 mm)	Red	AC	Yes	Yes
PAXDP010	Dual Process Meter	6 Digit	0.56" (14 mm)	Red	DC	Yes	Yes
PAXH0000	AC Current/Voltage Meter	4 1/2 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXH0100	AC Current/Voltage Meter	4 1/2 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXP0000	Process Meter	4 1/2 Digit	0.56" (14 mm)	Red	AC	Yes	Yes
PAXP0010	Process Meter	4 1/2 Digit	0.56" (14 mm)	Red	DC	Yes	Yes
PAXP0100	Process Meter	4 1/2 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXP0110	Process Meter	4 1/2 Digit	0.56" (14 mm)	Green	DC	Yes	Yes
PAXS0000	Strain Gage Meter	4 1/2 Digit	0.56" (14 mm)	Red	AC	Yes	Yes
PAXS0010	Strain Gage Meter	4 1/2 Digit	0.56" (14 mm)	Red	DC	Yes	Yes
PAXS0100	Strain Gage Meter	4 1/2 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXS0110	Strain Gage Meter	4 1/2 Digit	0.56" (14 mm)	Green	DC	Yes	Yes
PAXT0000	Universal Temperature Meter	4 1/2 Digit	0.56" (14 mm)	Red	AC	Yes	Yes
PAXT0010	Universal Temperature Meter	4 1/2 Digit	0.56" (14 mm)	Red	DC	Yes	Yes
PAXT0100	Universal Temperature Meter	4 1/2 Digit	0.56" (14 mm)	Green	AC	Yes	Yes
PAXT0110	Universal Temperature Meter	4 1/2 Digit	0.56" (14 mm)	Green	DC	Yes	Yes

PAX Lite 1/8 DIN Display Meters



- > Basic function meters
- > AC or DC power input models
- > Red LED display with 0.56" (14 mm) tall digits



MODEL NUMBER	FUNCTION	DISPLAY LENGTH	SETPOINTS	POWER
PAXLA0U0	Universal DC Analog Meter	5 Digit	Yes	AC/DC
PAXLC600	Counter	6 Digit	-	AC
PAXLCL00	Current Loop Meter	3 1/2 Digit	-	AC
PAXLCRU0	Dual Counter and Rate Meter	6 Digit	Yes	AC/DC
PAXLHV00	AC Voltage Meter	3 Digit	-	AC
PAXLIA00	AC Current Meter	3 1/2 Digit	-	AC
PAXLID00	DC Current Meter	3 1/2 Digit	-	AC
PAXLIT00	5 Amp Current Meter	3 1/2 Digit	-	AC
PAXLPT00	Process Time Indicator	6 Digit	-	AC
PAXLPV00	Process Volt Meter	3 1/2 Digit	-	AC
PAXLR000	Rate Meter	6 Digit	-	AC
PAXLRT00	RTD Meter	4 Digit	-	AC
PAXLSG00	Strain Gage Meter	3 1/2 Digit	-	AC
PAXLTOU0	Universal Temperature Meter	3 1/2 Digit	Yes	AC/DC
PAXLTC00	Thermocouple Meter	4 Digit	-	AC
PAXLVA00	AC Voltage Meter	3 1/2 Digit	-	AC
PAXLVD00	DC Volt Meter	3 1/2 Digit	-	AC

C48 1/16 DIN Preset Counter and Timer Meters



- > Single, dual and batch output(s) models
- > Sinking and sourcing sensor input operation
- > Two-line, six-digit display in red/green or reflective LCD



Counter

MODEL NUMBER	FUNCTION	DISPLAY COLOR	POWER	O.C. OUTPUT	RELAY OUTPUT(S)	COMMS
C48CS113	Single Preset Counter	Green/Red with Backlight	DC	Yes	Yes	-
C48CS003	Single Preset Counter	Black Reflective	AC	Yes	Yes	-
C48CS013	Single Preset Counter	Black Reflective	DC	Yes	Yes	-
C48CS103	Single Preset Counter	Green/Red with Backlight	AC	Yes	Yes	-
C48CD102	Dual Preset Counter	Green/Red with Backlight	AC	-	Yes	-
C48CD105	Dual Preset Counter	Green/Red with Backlight	AC	Yes	-	Yes
C48CD107	Dual Preset Counter	Green/Red with Backlight	AC	-	Yes	Yes
C48CD110	Dual Preset Counter	Green/Red with Backlight	DC	Yes	-	-
C48CD112	Dual Preset Counter	Green/Red with Backlight	DC	-	Yes	-
C48CD115	Dual Preset Counter	Green/Red with Backlight	DC	Yes	-	Yes
C48CD117	Dual Preset Counter	Green/Red with Backlight	DC	-	Yes	Yes
C48CP005	Dual Preset Counter	Black Reflective	AC	Yes	-	Yes
C48CP015	Dual Preset Counter	Black Reflective	DC	Yes	-	Yes
C48CD002	Dual Preset Counter	Black Reflective	AC	-	Yes	-
C48CP100	Dual Preset Counter	Green/Red with Backlight	AC	Yes	-	-
C48CD005	Dual Preset Counter	Black Reflective	AC	Yes	-	Yes
C48CP105	Dual Preset Counter	Green/Red with Backlight	AC	Yes	-	Yes
C48CD007	Dual Preset Counter	Black Reflective	AC	-	Yes	Yes
C48CP110	Dual Preset Counter	Green/Red with Backlight	DC	Yes	-	-

Counter

MODEL NUMBER	FUNCTION	DISPLAY	POWER	O.C. OUTPUT	RELAY OUTPUT(S)	COMMS
C48CD012	Dual Preset Counter	Black Reflective	DC	-	Yes	-
C48CP115	Dual Preset Counter	Green/Red with Backlight	DC	Yes	-	Yes
C48CD015	Dual Preset Counter	Black Reflective	DC	Yes	-	Yes
C48CD017	Dual Preset Counter	Black Reflective	DC	-	Yes	Yes
C48CD100	Dual Preset Counter	Green/Red with Backlight	AC	Yes	-	-
C48CB003	Batch Counter	Black Reflective	AC	Yes	Yes	-
C48CB005	Batch Counter	Black Reflective	AC	Yes	-	Yes
C48CB008	Batch Counter	Black Reflective	AC	Yes	Yes	Yes
C48CB100	Batch Counter	Green/Red with Backlight	AC	Yes	-	-
C48CB103	Batch Counter	Green/Red with Backlight	AC	Yes	Yes	-
C48CB105	Batch Counter	Green/Red with Backlight	AC	Yes	-	Yes
C48CB108	Batch Counter	Green/Red with Backlight	AC	Yes	Yes	Yes
C48CB110	Batch Counter	Green/Red with Backlight	DC	Yes	-	-

Timer

MODEL NUMBER	FUNCTION	DISPLAY	POWER	O.C. OUTPUT	RELAY OUTPUT(S)	COMMS
C48TS003	Single Preset Timer	Black Reflective	AC	Yes	Yes	-
C48TS013	Single Preset Timer	Black Reflective	DC	Yes	Yes	-
C48TS103	Single Preset Timer	Green/Red with Backlight	AC	Yes	Yes	-
C48TS113	Single Preset Timer	Green/Red with Backlight	DC	Yes	Yes	-
C48TD002	Dual Preset Timer	Black Reflective	AC	-	Yes	-
C48TD005	Dual Preset Timer	Black Reflective	AC	Yes	-	Yes
C48TD007	Dual Preset Timer	Black Reflective	AC	-	Yes	Yes
C48TD012	Dual Preset Timer	Black Reflective	DC	-	Yes	-
C48TD102	Dual Preset Timer	Green/Red with Backlight	AC	-	Yes	-
C48TD105	Dual Preset Timer	Green/Red with Backlight	AC	Yes	-	Yes
C48TD107	Dual Preset Timer	Green/Red with Backlight	AC	-	Yes	Yes
C48TD112	Dual Preset Timer	Green/Red with Backlight	DC	-	Yes	-
C48TD117	Dual Preset Timer	Green/Red with Backlight	DC	-	Yes	Yes

CUB®5 Analog and Digital Panel Meters



- > Single or dual setpoint control, field-installable relay or SSR and communication cards
- > 9 to 28 VDC power input
- > Width 2.68" (68 mm) x height 1.3" (33 mm) x depth 1.29" (44 mm)



MODEL NUMBER	FUNCTION	DISPLAY LENGTH	DISPLAY HEIGHT	DISPLAY COLOR	COLOR CHANGE AT SETPOINT
CUB5VB00	DC Volt Meter	5 Digit	0.48" (12 mm)	Red/Green Backlight	Yes
CUB5VR00	DC Volt Meter	5 Digit	0.48" (12 mm)	Reflective	-
CUB5TB00	Timer	7 Digit	0.46" (11 mm)	Red/Green Backlight	Yes
CUB5TR00	Timer	7 Digit	0.46" (11 mm)	Reflective	-
CUB5B000	Dual Counter or Count/Rate	8 Digit	0.46" (11 mm)	Red/Green Backlight	Yes
CUB5R000	Dual Counter or Count/Rate	8 Digit	0.46" (11 mm)	Reflective	-
CUB5PB00	Process Meter	5 Digit	0.48" (12 mm)	Red/Green Backlight	Yes
CUB5PR00	Process Meter	5 Digit	0.48" (12 mm)	Reflective	-
CUB5IB00	DC Current Meter	5 Digit	0.48" (12 mm)	Red/Green Backlight	Yes
CUB5IR00	DC Current Meter	5 Digit	0.48" (12 mm)	Reflective	-
CUB5RTB0	RTD Meter	5 Digit	0.48" (12 mm)	Red/Green Backlight	Yes
CUB5RTR0	RTD Meter	5 Digit	0.48" (12 mm)	Reflective	-
CUB5TCB0	Thermocouple Meter	5 Digit	0.48" (12 mm)	Red/Green Backlight	Yes
CUB5TCR0	Thermocouple Meter	5 Digit	0.48" (12 mm)	Reflective	-

CUB4 Analog and Digital Panel Meters



- > Basic function display meters
- > Red/green backlight or reflective LCD display
- > 9 to 28 VDC power input
- > Width 2.68" (68 mm) x height 1.3" (33 mm) x depth 1.29" (44 mm)



MODEL NUMBER	FUNCTION	DISPLAY LENGTH	DISPLAY HEIGHT	DISPLAY COLOR
CUB4L000	Counter	6 Digit	0.48" (12 mm)	Reflective
CUB4L010	Counter	6 Digit	0.48" (12 mm)	Green Backlight
CUB4L020	Counter	6 Digit	0.48" (12 mm)	Red Backlight
CUB4L800	Counter	8 Digit	0.46" (12 mm)	Reflective
CUB4L810	Counter	8 Digit	0.46" (12 mm)	Green Backlight
CUB4L820	Counter	8 Digit	0.46" (12 mm)	Red Backlight
CUB4V000	DC Volt Meter	3 1/2 Digit	0.6" (15 mm)	Reflective
CUB4V010	DC Volt Meter	3 1/2 Digit	0.6" (15 mm)	Green Backlight
CUB4V020	DC Volt Meter	3 1/2 Digit	0.6" (15 mm)	Red Backlight
CUB4CL10	Current Loop Meter	3 1/2 Digit	0.6" (15 mm)	Green Backlight, Negative Image
CUB4CL20	Current Loop Meter	3 1/2 Digit	0.6" (15 mm)	Red Backlight, Negative Image
CUB4CL30	Current Loop Meter	3 1/2 Digit	0.6" (15 mm)	Green Backlight, Positive Image
CUB4CL40	Current Loop Meter	3 1/2 Digit	0.6" (15 mm)	Red Backlight, Positive Image
CUB4I000	DC Current Meter	3 1/2 Digit	0.6" (15 mm)	Reflective
CUB4I010	DC Current Meter	3 1/2 Digit	0.6" (15 mm)	Green Backlight
CUB4I020	DC Current Meter	3 1/2 Digit	0.6" (15 mm)	Red Backlight
CUB4LP00	Loop Powered Process Meter	3 1/2 Digit	0.6" (15 mm)	Reflective
CUB4LP40	Loop Powered Process Meter	3 1/2 Digit	0.6" (15 mm)	Red Backlight

CUB7 1/32 DIN Counters and Timers



- > Eight-digit display with 0.35" (9 mm) numbers
- > Yellow/green or red backlight LCD display
- > Provides contact, logic, open collector or high-voltage input



MODEL NUMBER	FUNCTION	DISPLAY COLOR	INPUTS	TIMING
CUB7CCG0	Counter	Backlight Green	28 VDC max	-
CUB7CCR0	Counter	Backlight Red	28 VDC max	-
CUB7CCS0	Counter	Reflective	28 VDC max	-
CUB7CVG0	Counter	Backlight Green	50 to 250 VAC/VDC	-
CUB7CVR0	Counter	Backlight Red	50 to 250 VAC/VDC	-
CUB7CVS0	Counter	Reflective	50 to 250 VAC/VDC	-
CUB7TCG0	Timer	Backlight Green	28 VDC max	Time when input is low
CUB7TCG1	Timer	Backlight Green	28 VDC max	Time when input is high
CUB7TCR0	Timer	Backlight Red	28 VDC max	Time when input is low
CUB7TCR1	Timer	Backlight Red	28 VDC max	Time when input is high
CUB7TCS0	Timer	Reflective	28 VDC max	Time when input is low
CUB7TCS1	Timer	Reflective	28 VDC max	Time when input is high
CUB7TVG0	Timer	Backlight Green	50 to 250 VAC/VDC	Time when input is low
CUB7TVR0	Timer	Backlight Red	50 to 250 VAC/VDC	Time when input is low
CUB7TVS0	Timer	Reflective	50 to 250 VAC/VDC	Time when input is low

Large LED Displays

Red Lion offers a wide range of large LED displays with multiple inputs and optional output cards to meet a variety of visual display needs. Our large industrial displays are available with up to 4 inch (101 mm) tall characters and can display up to six digits to provide reliable visual display performance in rugged environments.

- > Available as complete solution or expandable with modules
- > Easily expand functionality with option cards
- > Universal power inputs (model specific)
- > Support for serial communication



LD2 2.25" Large Displays



- > 2.25-inch (57 mm) LED digits with adjustable intensity
- > Optional RS-232 or RS-485 communication ports
- > Universal AC/DC power input



MODEL NUMBER	FUNCTION	DIGITS	BATCH/CYCLE	SETPOINTS	COMMS
LD200400	Counter	4	-	-	-
LD200600	Counter	6	-	-	-
LD2006P0	Dual Counter/Rate	6	Yes	Yes	Yes
LD2A05P0	DC Volt/DC Current/Process	5	-	Yes	Yes
LD2SG5P0*	Strain Gage	5	-	Yes	Yes
LD2SS6P0	Serial Slave	6	-	Yes	Yes
LD2T06P0	Timer	6	Yes	Yes	Yes

* Not UL Listed

LD4 4" Large Displays

- > Four-inch (101 mm) LED digits with adjustable intensity
- > Optional RS-232 or RS-485 communication ports
- > Universal AC/DC power input



MODEL NUMBER	FUNCTION	DIGITS	BATCH/CYCLE	SETPOINTS	COMMS
LD400400	Counter	4	-	-	-
LD400600	Counter	6	-	-	-
LD4006P0	Dual Counter/Rate	6	Yes	Yes	Yes
LD4A05P0	DC Volt/DC Current/Process	5	-	Yes	Yes
LD4SG5P0*	Strain Gage	5	-	Yes	Yes
LD4SS6P0	Serial Slave	6	-	Yes	Yes
LD4T06P0	Timer	6	Yes	Yes	Yes

* Not UL Listed

LPAX 1.5" Large Display, Field-Installable Option Cards

- > 1.5-inch (38 mm) LED digits with adjustable intensity
- > AC or DC power input models
- > Easily add communication, setpoint and retransmitted analog functionality with option cards



MODEL NUMBER	FUNCTION	DIGITS	SETPOINTS	COMMS	KEY FEATURES
LPAX0500	Display for Analog Input Modules	5	Yes	Yes	Analog Output
LPAX0600	Display for Digital Input Modules	6	Yes	Yes	Analog Output
LPAXCK00*	Display for MPAXCK Module	6	Yes	Yes	Analog Output
LPAXDA00*	Display for MPAXDP Module	5	Yes	Yes	Analog Output

EPAX 4" Large Display, Field-Installable Option Cards

- > Four-inch (101 mm) LED digits with adjustable intensity
- > 85 to 250 VAC power input
- > Easily add communication, setpoint and retransmitted analog functionality with option cards



MODEL NUMBER	FUNCTION	DIGITS	SETPOINTS	COMMS	KEY FEATURES
EPAX0500	Display for Analog Input Modules	5	Yes	Yes	Analog Output
EPAX0600	Display for Digital Input Modules	6	Yes	Yes	Analog Output

Visual Management

Red Lion's ProductVity Station is a ready-to-deploy plant floor visual management system. The ProductVity Station displays real-time Key Performance Indicator (KPI) data and Andon messages on large televisions to improve productivity and efficiency. Ideal for factory floors, processing plants or any place where performance or quality needs to be tracked and monitored, this visual management system lets you easily create sophisticated production scoreboards.



ProductVity Station

- > Support for 300+ protocols, up to 12 simultaneous protocols
- > Easily integrates with existing equipment
- > Built-in data logging with time stamping, accessible via CSV format
- > Virtual HMI with web server for remote viewing and control
- > Connects to any LCD or plasma TV providing up to 720P output
- > Synchronization via FTP or Microsoft® SQL server
- > UL Class 1, Division 2 Listed for hazardous locations



MODEL NUMBER	FUNCTION	WEB SERVER WITH VIRTUAL HMI	DISPLAY OUTPUT
PTV00000	Visual Management System	WXGA 1024 x 768	720P

PID Controllers

From single to multi-point control, Red Lion has the right proportional-integral-derivative (PID) controller for any application. Our wide range of easy-to-deploy PID controllers offer industry-leading features and reliable performance designed for the most demanding applications.

- > Panel or DIN-rail mountable models
- > Optional modular expansion cards
- > Programmable via Crimson software



Modular Controller Multi-Zone PID Controllers



- > Support for up to 16 hot-swappable modules
- > Built-in data logging with time stamping, accessible via CSV format
- > Three serial and one Ethernet port standard



MODEL NUMBER	PROTOCOL CONVERSION	DATA LOGGING	WEB SERVER	VIRTUAL HMI	OPERATING TEMP
CSMSTRGT	Yes	Yes	Yes	VGA (640 x 480)	0° to 50°C
CSMSTRLE	Yes	-	-	-	0° to 50°C
CSMSTRSX	Yes	Yes	Yes	QVGA (320 x 240)	0° to 50°C
CSMSTRV2	Yes	-	-	-	0° to 50°C
CSMSTRZR	Yes	Yes	Yes	WXGA (1280 x 720)	0° to 45°C

PAX2C 1/8 DIN Advanced Universal PID Controllers



- > Universal process, thermocouple/RTD, voltage and process inputs
- > Programmable dual-line display with units and bar graph
- > Field-installable option cards: HCM, Second analog input/PID controller, 4-20 mA or 0-10 V analog output, relay or solid state outputs
- > Optional communication cards include RS-232, RS-485, DeviceNet and PROFIBUS-DP



MODEL NUMBER	FUNCTION	SIZE	DISPLAY	DISPLAY COLOR	ANALOG OUTPUT	ALARMS	COMMUNICATION	POWER
PX2C8H00	Universal	1/8 DIN Horizontal	LCD	Tri-color Backlit	Yes	Up to 16	Yes	AC/DC
PX2C8V00	Universal	1/8 DIN Vertical	LCD	Tri-color Backlit	Yes	Up to 16	Yes	AC/DC

PID Feature Comparison

FEATURES	PAX2C	T48/P48	PXU	MODULAR CONTROLLER	DLC
DIN Size(s)	1/8	1/16	1/16, 1/8, 1/4		
Mounting	Panel	Panel	Panel	DIN-Rail	DIN-Rail
Display	Dual-Line	Dual-Line	Dual-Line	Virtual	
Bar Graph on Display	•				
PID Control Zones	3*	1	1	32*	2
Universal Inputs	•		•		
Alarms	•	•	•	•	•
Protocol Conversion				•	
Built-in Communication	•	Optional	Optional	•	•
Expansion Card Slots	3			16	
Power Input	AC/DC	AC or DC	AC or DC	DC	DC

* Requires expansion modules

T48/P48 1/16 Process and Temperature Controllers



- > 4-20 mA or 0-10 V analog output, relay or solid state outputs
- > Optional RS-485 serial communications
- > Four-digit dual-line display in red/green



P48 Process Input Controllers

MODEL NUMBER	FUNCTION	SECOND ANALOG OUTPUT	MAIN CONTROL OUTPUT	COMMS	POWER
P4800001	Process Input	-	Analog Output	-	AC
P4800011	Process Input	-	Analog Output	-	DC
P4810000	Process Input	-	Relay Output	-	AC
P4810010	Process Input	-	Relay Output	-	DC
P4810101	Process Input	-	Dual Relay Output	-	AC
P4810105	Process Input	-	Dual Relay Output	-	AC
P4810107	Process Input	-	Dual Relay Output	RS-485	AC
P481010A	Process Input	Yes	Dual Relay Output	-	AC
P4810111	Process Input	-	Dual Relay Output	-	DC
P4810115	Process Input	-	Dual Relay Output	-	DC
P4810117	Process Input	-	Dual Relay Output	RS-485	DC
P481011A	Process Input	Yes	Dual Relay Output	-	DC
P4811100	Process Input	-	Dual Relay Output	-	AC
P4811102	Process Input	-	Dual Relay Output	RS-485	AC
P4811110	Process Input	-	Dual Relay Output	-	DC
P4811112	Process Input	-	Dual Relay Output	RS-485	DC

Continued

T48 Temperature Input Controllers with Relay Output

MODEL NUMBER	FUNCTION	SECOND INPUT OPTION	SECOND ANALOG OUTPUT	MAIN CONTROL OUTPUT	COMMS	POWER
T4810000	Temperature	-	-	Relay Output	-	AC
T4810002	Temperature	-	-	Relay Output	RS-485	AC
T4810010	Temperature	-	-	Relay Output	-	DC
T4810101	Temperature	-	-	Dual Relay Output	-	AC
T4810105	Temperature	Remote Setpoint Input	-	Dual Relay Output	-	AC
T4810106	Temperature	Heater Current Monitor	-	Dual Relay Output	-	AC
T4810107	Temperature	-	-	Dual Relay Output	RS-485	AC
T4810108	Temperature	Remote Setpoint Input	-	Dual Relay Output	RS-485	AC
T4810109	Temperature	Heater Current Monitor	-	Dual Relay Output	RS-485	AC
T481010A	Temperature	-	Yes	Dual Relay Output	-	AC
T4810111	Temperature	-	-	Dual Relay Output	-	DC
T4810115	Temperature	Remote Setpoint Input	-	Dual Relay Output	-	DC
T4810116	Temperature	Heater Current Monitor	-	Dual Relay Output	-	DC
T4810117	Temperature	-	-	Dual Relay Output	RS-485	DC
T4810118	Temperature	Remote Setpoint Input	-	Dual Relay Output	RS-485	DC
T4810119	Temperature	Heater Current Monitor	-	Dual Relay Output	RS-485	DC
T481011A	Temperature	-	Yes	Dual Relay Output	-	DC
T4811000	Temperature	-	-	Dual Relay Output	-	AC
T4811100	Temperature	-	-	3 Relay Output	-	AC
T4811102	Temperature	-	-	3 Relay Output	RS-485	AC
T4811103	Temperature	Remote Setpoint Input	-	3 Relay Output	-	AC
T4811104	Temperature	Heater Current Monitor	-	3 Relay Output	-	AC
T4811110	Temperature	-	-	3 Relay Output	-	DC
T4811112	Temperature	-	-	3 Relay Output	RS-485	DC
T4811113	Temperature	Remote Setpoint Input	-	3 Relay Output	-	DC
T4811114	Temperature	Heater Current Monitor	-	3 Relay Output	-	DC

T48 Temperature Input Controllers with Logic Output

MODEL NUMBER	FUNCTION	SECOND INPUT OPTION	MAIN CONTROL OUTPUT	COMMS	POWER
T4820000	Temperature	-	Logic	-	AC
T4820010	Temperature	-	Logic	-	DC
T4820201	Temperature	-	Dual Logic Output	-	DC
T4820205	Temperature	Remote Setpoint Input	Dual Logic Output	-	AC
T4820206	Temperature	Heater Current Monitor	Dual Logic Output	-	AC
T4820208	Temperature	Remote Setpoint Input	Dual Logic Output	RS-485	AC
T4820209	Temperature	Heater Current Monitor	Dual Logic Output	RS-485	AC
T4820211	Temperature	-	Dual Logic Output	-	DC
T4820215	Temperature	Remote Setpoint Input	Dual Logic Output	-	DC
T4820216	Temperature	Heater Current Monitor	Dual Logic Output	-	DC
T4820218	Temperature	Remote Setpoint Input	Dual Logic Output	RS-485	DC
T4820219	Temperature	Heater Current Monitor	Dual Logic Output	RS-485	DC
T4821000	Temperature	-	Logic/Relay	-	AC
T4821100	Temperature	-	Logic/Dual Relay	-	AC
T4821102	Temperature	-	Logic/Dual Relay	RS-485	AC
T4821103	Temperature	Remote Setpoint Input	Logic/Dual Relay	-	AC
T4821104	Temperature	Heater Current Monitor	Logic/Dual Relay	-	AC
T4821110	Temperature	-	Logic/Dual Relay	-	DC
T4821112	Temperature	-	Logic/Dual Relay	RS-485	DC
T4821113	Temperature	Remote Setpoint Input	Logic/Dual Relay	-	DC
T4821114	Temperature	Heater Current Monitor	Logic/Dual Relay	-	DC
T4832200	Temperature	-	Triac/Dual Logic	-	AC

PXU Basic Universal PID Controllers



- > Universal inputs (temperature or process)
- > 4-20 relay or solid state outputs
- > Available in 1/4, 1/8 and 1/16 DIN models
- > Optional RS-485 communication



MODEL NUMBER	DIN SIZE	MAIN CONTROL	SECONDARY CONTROL	RS-485 COMMS	USER INPUTS	POWER
PXU309B0	1/16 DIN	4 to 20 mA	-	-	-	DC
PXU31A20	1/16 DIN	4 to 20 mA	Relay	Yes	Yes	AC
PXU31AB0	1/16 DIN	4 to 20 mA	Relay	Yes	Yes	DC
PXU11A20	1/16 DIN	Dual Relay Output	Relay	Yes	Yes	AC
PXU11AB0	1/16 DIN	Dual Relay Output	Relay	Yes	Yes	DC
PXU21A20	1/16 DIN	Logic/Relay	Relay	Yes	Yes	AC
PXU21AB0	1/16 DIN	Logic/Relay	Relay	Yes	Yes	DC
PXU10020	1/16 DIN	Relay Output	-	-	-	AC
PXU100B0	1/16 DIN	Relay Output	-	-	-	DC
PXU20020	1/16 DIN	Solid State Output	-	-	-	AC
PXU209B0	1/16 DIN	Solid State Output	-	-	-	DC
PXU11A30	1/8 DIN	Dual Relay Output	Relay	Yes	Yes	AC
PXU11AC0	1/8 DIN	Dual Relay Output	Relay	Yes	Yes	DC
PXU21A30	1/8 DIN	Logic/Relay	Relay	Yes	Yes	AC
PXU21AC0	1/8 DIN	Logic/Relay	Relay	Yes	Yes	DC
PXU10030	1/8 DIN	Relay Output	-	-	-	AC
PXU100C0	1/8 DIN	Relay Output	-	-	-	DC
PXU20030	1/8 DIN	Solid State Output	-	-	-	AC
PXU11A50	1/4 DIN	Dual Relay Output	Relay	Yes	Yes	AC
PXU11AE0	1/4 DIN	Dual Relay Output	Relay	Yes	Yes	DC

DLC Dual Loop DIN-Rail PID Controllers



- > Dual independent inputs
- > Support for two alarms per channel
- > Built-in MOSFETs capable of switching up to 1 Amp DC

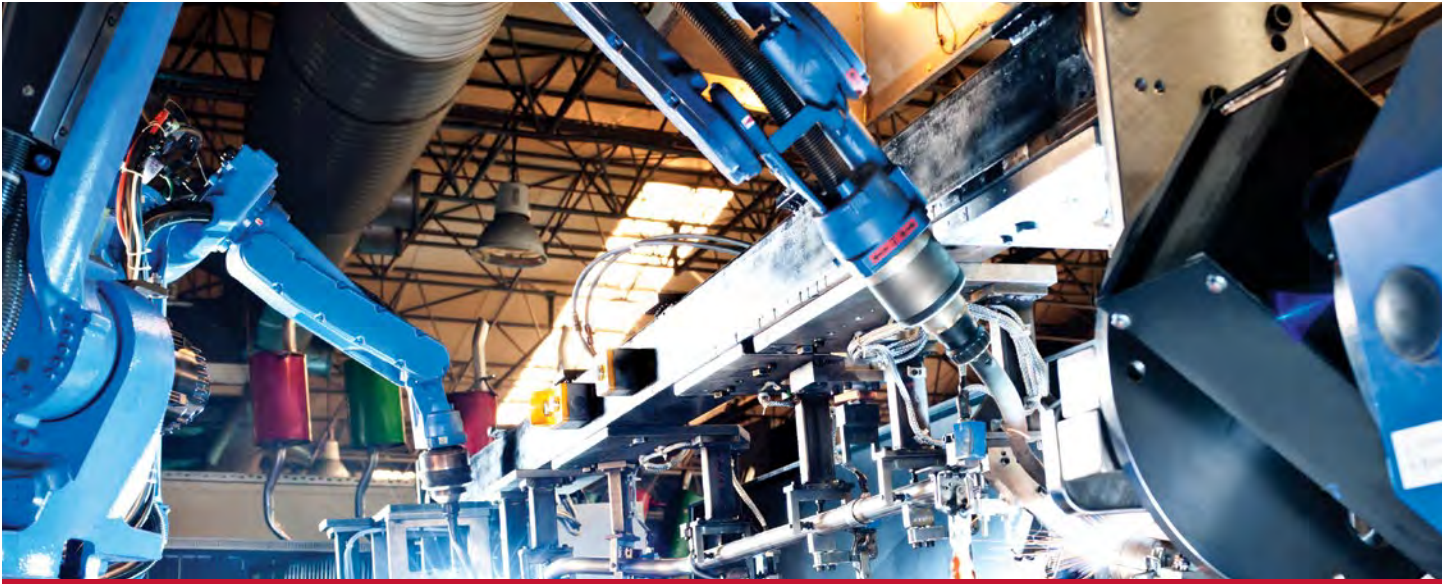


MODEL NUMBER	FUNCTION	UNIVERSAL INPUT(S)	DUAL ANALOG OUTPUTS
DLC00001	Dual Loop Controller	Yes	-
DLC01001	Dual Loop Controller	Yes	Yes
DLC11001	Dual Setpoint Controller	Yes	Yes

Protocol Conversion & Data Acquisition

With support for more than 300 industrial protocols, Red Lion helps devices from different manufacturers communicate. Our Crimson software uses drag-and-drop mapping functionality to seamlessly integrate data collection across disparate devices and protocols.

- > Support for more than 300+ industrial protocols
- > Easily configured using Crimson software
- > Offers a variety of physical communication ports



Data Station Plus Protocol Converters



- > Support for 300+ protocols, up to 12 simultaneous conversions
- > Three serial and one Ethernet port standard
- > Send email and SMS upon alarm status
- > Virtual HMI with web server for remote viewing and control
- > Built-in data logging with time stamping, available via CSV format



MODEL NUMBER	PROTOCOL CONVERSION	DATA LOGGING	WEB SERVER	VIRTUAL HMI	OPERATING TEMP
DSPGT000	Yes	Yes	Yes	VGA	0° to 50°C
DSPGT001	Yes	Yes	Yes	VGA	-20° to 70°C
DSPLE000	Yes	-	-	-	0° to 50°C
DSPLE001	Yes	-	-	-	-20° to 70°C
DSPSX000	Yes	Yes	Yes	QVGA	0° to 50°C
DSPSX001	Yes	Yes	Yes	QVGA	-20° to 70°C
DSPZR000	Yes	Yes	Yes	WXGA	0° to 45°C

RTUs & I/O Modules

Red Lion's Sixnet series of RTUs & I/O Modules provide reliable, simple and secure remote monitoring for sites located in harsh environments. Offering the lowest cost per I/O point and rugged environmental ratings, these solutions provide robust sensor or field data collection and communication.

- > Built-in Ethernet connectivity
- > UL Class I, Division 2 Listed; ABS, CE and CSA certified
- > Easily scalable to fit any application



Industrial RTUs



- > Built-in data logging
- > Non-proprietary Linux® OS supports custom programming
- > Communicates with Modbus, Modbus TCP/UDP, DNP3, SNMP, IEC60870-5 and Sixnet UDR protocols
- > Wide -40° to 70°C operating temperature range
- > All models UL Class 1, Division 2 Listed for hazardous locations



MODEL NUMBER	ETHERNET PORTS	RS-232 PORTS	RS-485 PORTS	DI	DO	AI	AO	NVRAM	FLASH	DRAM
ST-IPM-6350*	5	2	1	-	-	-	-	2M	128M	64M
VT-MIPM-245-D	1	2	2	12	4	8	2	512K	64M	32M
VT-MIPM-135-D	1	2	1	12	8	6	-	512K	64M	32M
VT-IPM2M-213-D	1	1	1	12	4	8	2	512K	32M	32M
VT-IPM2M-113-D	1	1	1	12	4	8	-	512K	32M	32M
VT-UIPM-431-H	1	2	1	8	4	2	-	512K	16M	16M

EtherTRAK® Industrial I/O Modules



- > Features wide variety of I/O types
- > Powerful communications featuring configurable two port switch
- > Support for Modbus/TCP, Sixnet UDR and other industrial protocols
- > -40° to 75°C operating temperature range
- > All models UL Class 1, Division 2 Listed for hazardous locations

MODEL NUMBER	FUNCTION	HIGH-SPEED COUNTER	DI	DO	AI	AO	PoE CAPABLE
E2-MIX20884-D	32 Mixed Inputs/Outputs	4 (Isolated)	20	8	8	4	-
E2-MIX24880-D	32 Mixed Inputs/Outputs	2 (One Isolated)	24	8	8	-	-
E2-MIX24882-D	34 Mixed Inputs/Outputs	4	24	8	8	2	-
E2-32DI24-D	32 24V Digital Inputs	1 (Isolated)	32	-	-	-	-
E2-16DI24-D	16 24V Digital Inputs	1 (Isolated)	16	-	-	-	-
E2-16DIAC-D	16 120VAC Digital Inputs	-	16	-	-	-	-
E2-32DO24-D	32 24V Digital Outputs	-	-	32	-	-	-
E2-16DO24-D	16 24V Digital Outputs	-	-	16	-	-	-
E2-16DORLY-D	16 Digital Output Relays	-	-	16	-	-	-
E2-16ISO20M-D	16 Isolated Analog Inputs (4-20mA)	-	-	-	16	-	-
E2-32AI20M-D	32 20mA Analog Inputs	-	-	-	32	-	-
E2-32AI10V-D	32 10VDC Analog Inputs	-	-	-	32	-	-
E2-16AI20M-D	16 Analog Inputs (4-20mA)	-	-	-	16	-	-
E2-16AI-8AO-D	16 24V Digital Inputs/Analog Outputs	-	-	-	16	8	-
E2-8AO20M-D	8 Analog Outputs	-	-	-	-	8	-
E2-16ISOTC-D	16 Isolated Thermocouple Inputs	-	-	-	16TC	-	-
E2-10RTD-D	10 RTD Inputs	-	-	-	10 RTD	-	-
EB-MIX24880-D	32 Mixed Inputs/Outputs, PoE	2 (One Isolated)	24	8	8	-	Yes
EB-MIX24882-D	34 Mixed Inputs/Outputs, PoE	4	24	8	8	2	Yes
EB-32DI24-D	32 Digital Inputs, PoE	1 (Isolated)	32	-	-	-	Yes
EB-16DI24-D	16 Isolated Digital Inputs, PoE	1 (Isolated)	16	-	-	-	Yes
EB-32DO24-D	32 Digital Output, PoE	-	-	32	-	-	Yes
EB-16DO24-D	16 Isolated Digital Outputs, PoE	-	-	16	-	-	Yes
EB-16ISO20M-D	16 Isolated Analog Inputs (4-20mA), PoE	-	-	-	16	-	Yes
EB-32AI20M-D	32 Analog Inputs (4-20mA), PoE	-	-	-	32	-	Yes
EB-32AI10V-D	32 Analog Inputs (0-10V), PoE	-	-	-	32	-	Yes
EB-16AI20M-D	16 Analog Inputs (4-20mA), PoE	-	-	-	16	-	Yes
EB-16AI-8AO-D	16 Mixed Analog Inputs/Outputs, PoE	-	-	-	16	8	Yes
EB-8AO20M-D	8 4-20mA Analog Outputs, PoE	-	-	-	-	8	Yes
EB-16ISOTC-D	16 Isolated Thermocouple Inputs, PoE	-	-	-	16TC	-	Yes
EB-10RTD-D	10 RTD Inputs, PoE	-	-	-	10 RTD	-	Yes

Signal Conditioners

Red Lion provides a broad selection of signal conditioners for frequency, temperature and process applications. Our signal conditioners range from dedicated to universal models capable of accepting over 100 inputs, which enable these units to be used almost anywhere.

- > Support for over 100 input/output combinations
- > Plug-and-play deployment
- > Offers frequency, process and temperature conversion



IFMA Frequency to Analog Converters

- > Accepts frequency input and outputs analog voltage/current
- > Rotary switch configuration
- > Support for three-way isolation



MODEL NUMBER	FUNCTION
IFMA0035	Frequency to Analog Converter DC Powered
IFMA0065	Frequency to Analog Converter AC Powered

IFMR Speed Switches

- > Accepts frequency input and outputs over/under/zero speed detection
- > Built-in single relay output
- > Support for alarm latching and resetting



MODEL NUMBER	FUNCTION
IFMR0036	Speed Switch DC Powered
IFMR0066	Speed Switch AC Powered

IRMA RTD to Analog Converters

- > Accepts two, three or four wire RTD input, outputs 4 to 20 mA
- > Loop powered models
- > Sensor breakdown detection



MODEL NUMBER	FUNCTION
IRMA2003	Intelligent RTD Module with Analog Output Loop Powered
IRMA3035	Intelligent RTD Module with Analog Output DC Powered

ITMA Thermocouple to Analog Converters

- > Accepts thermocouple or millivolt input, outputs 4 to 20 mA
- > Ten-position DIP switch for configuration
- > Thermocouple breakdown detection



MODEL NUMBER	FUNCTION
ITMA2003	Intelligent Thermocouple with Analog Output Loop Powered
ITMA3035	Intelligent Thermocouple with Analog Output DC Powered

IAMS Universal Signal Conditioner

- > Universal power and input
- > Three-way signal isolation
- > Easy programming with removable configuration display module



MODEL NUMBER	FUNCTION
IAMS0001	IAMS with Analog Output
IAMS0010	IAMS with Dual Setpoint
IAMS0011*	IAMS with Analog and Dual Setpoint
PGMMOD00**	Programming Display Module

* Not CE approved

** Not CE approved or UL Listed

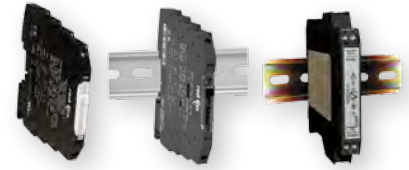
IAMA Universal Signal Conditioner

- > Features over 100 analog I/O combinations
- > Provides linear or square root extraction
- > Three-way signal isolation



MODEL NUMBER	FUNCTION
IAMA3535	Linear Universal Signal Conditioning Module
IAMA6262	Square Root Universal Signal Conditioning Module

IAMA0006, AIMI & AFCM Slimline Signal Converters



- > Small form-factor signal conditioner
- > Converts process input signals
- > Ultra-slim design
- > Loop powered models

MODEL NUMBER	FUNCTION
IAMA0006	Universal with 35 Input/Output Conversions
AIMI0202*	4 to 20 mA Loop Powered Isolator
AFCM0000	Voltage/Current to Frequency Conversion DC Powered

* Not UL Recognized

Watchdog Relay Hardware Monitor



- > Rugged hardware-based solution
- > Heartbeat monitoring for PLCs, RTUs and controllers
- > Automatically powers down systems when malfunction detected
- > UL Class 1, Division 2 Listed for hazardous locations



MODEL NUMBER	FUNCTION
6HBWDOG1	Heartbeat Watchdog with Form C Relay

Certifications & Approvals



UL Listed - UL has tested representative samples of the product and determined that it meets UL requirements. These requirements are based primarily on ULs published and nationally recognized Standards for Safety. (Underwriters Laboratories, www.ul.com, 2015)



IECEX - The objective of the IECEX system is to facilitate international trade in equipment and services for use in explosive atmospheres, while maintaining the required level of safety. (IEC IECEX, www.iecex.com, 2015)



UL Recognized Component - The evaluation of components or materials intended for use in a complete product or system. (Underwriters Laboratories, www.ul.com, 2015)



CE - The CE marking indicates a product's compliance with EU legislation and so enables the free movement of products within the European market. (European Commission, www.ec.europa.eu, 2014)



ABS - The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the product. (ABS, ww2.eagle.org, 2015)



ATEX - The equipment and protective systems intended for use in potentially explosive atmospheres (ATEX) Directive 94/9/EC provides the technical requirements to be applied and the relevant conformity assessment procedures before placing this equipment on the European market. (European Commission, www.ec.europa.eu, 2014)



FM - FM Approvals is an international leader in third-party certification and approval of commercial and industrial products. (FM Global, www.fmglobal.com, 2015)

A comprehensive portfolio of industrial automation and networking solutions to **connect. monitor. control.**



Industrial Automation

Process Control

- PID Controllers
- Data Acquisition
- RTUs & I/O Modules
- Signal Conditioners
- Sensors

HMIs & Panel Meters

- HMI Operator Panels
- Panel Meters
- Large LED Displays
- Visual Management

Industrial Networking

Ethernet Switches

- Unmanaged
- Monitored
- Managed
- PoE
- Routers
- Wi-Fi Radios

Cellular M2M

- Cellular Routers
- Cellular RTUs

Communication Converters

- Protocol Converters
- Media Converters
- Serial Converters

As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

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