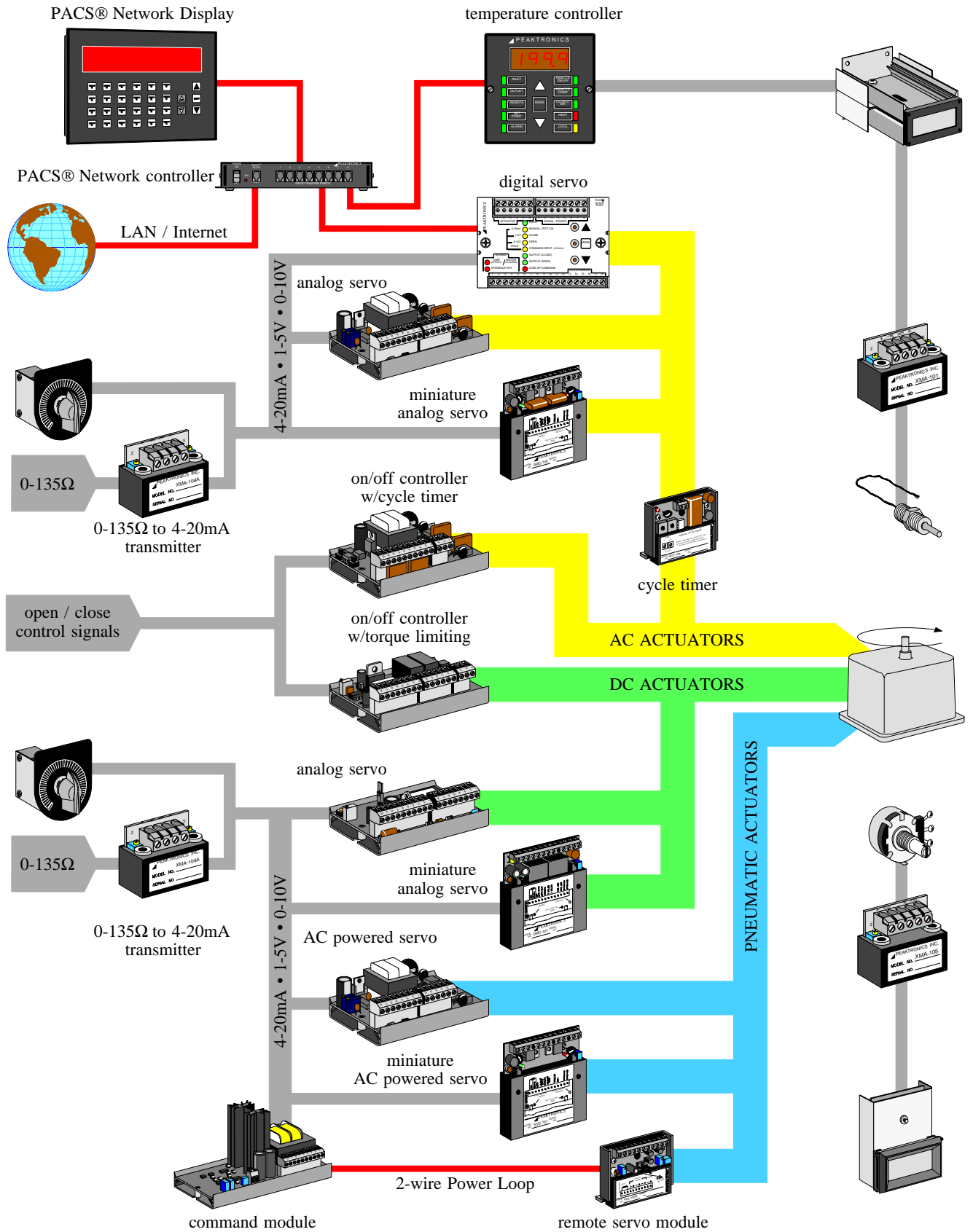


PEAKTRONICS

2002

revolutionizing your actuator

2002



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Terms and Conditions: 1) net 30 days 2) 1.5% service charge per month after 45 days 3) stopped shipments after 60 days 4) placed for collection after 75 days 5) Any shipments after an account is put in for collection will be on a prepaid basis. 6) All shipments are subject to a \$ 3.00 handling charge. 7) All returned goods are subject to a 20% restocking charge. 8) All repairs left over 90 days will become the property of Peaktronics, Inc. **Blankets:** Blanket orders cannot extend more than one year from the date of original purchase. **Quotations:** All written quotations made by Peaktronics, Inc. are valid for sixty days unless otherwise noted.

ONE YEAR WARRANTY

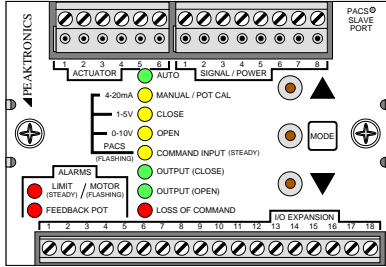
All products manufactured by PEAKTRONICS, INC. are warranted against defective materials and workmanship for a period of one year from the date of delivery to the original purchaser. Any product that is found to be defective within the warranty period will be repaired, or, at the option of PEAKTRONICS, INC., will be replaced, free of charge.

This warranty does not apply to any products which have been altered, or repaired, by someone other than PEAKTRONICS, INC., or which have been subjected to misuse, negligence, or accident. In no case shall the liability of PEAKTRONICS, INC. exceed the original purchase price of the product.

ACKNOWLEDGEMENTS: PACS® is a registered trademark of Peaktronics, Inc., Snaptrack® is a registered trademark of Augat/RDI, and GO® is a registered trademark of GO Switch.

AC Electric Actuator Products

Digital Controllers (AC digital servo)



PAM-100

The **PAM-100** is a smart actuator controller designed for easy operation and simplified setups while performing many automatic precision operations. Since the unit is equipped with PACS[®], it is ready to operate as part of a PACS[®] Network. See **DCS-101** and **DCS-102** network controllers.

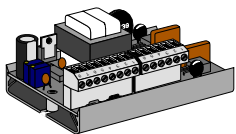
PACS[®] Actuator Modules

| Voltage | Model | List |
|---------|----------|-----------|
| 117VAC | PAM-100 | \$ 730.50 |
| 234VAC | PAM-100A | \$ 755.00 |
| 24VAC | PAM-100B | \$ 755.00 |

Accessories

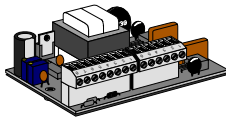
| Model | Description | List |
|---------|---------------------------------------|--------------|
| ROM-100 | (4) N.O. 2A relays | call factory |
| ROM-101 | (4) Form-C 10A relays | call factory |
| TSP-103 | Motor Temperature Sensor, 0 to 230 °F | \$ 35.00 |

AC Motor Controllers (AC analog servo)

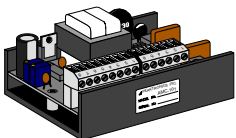


**AMC-100
AMC-100B
AMC-100D**

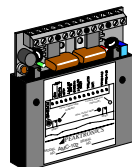
**AMC-100A
AMC-100C
AMC-100E
AMC-101A
AMC-101C
AMC-101E**



**AMC-101
AMC-101B
AMC-101D**



**AMC-102
AMC-102A
AMC-102B**



The **AMC Series** AC Motor Controllers are tried and proven products in a wide variety of applications using a wide assortment of AC electric actuators. The Peaktronics AMC Series is slowly becoming the standard of the industry.

2A Controllers

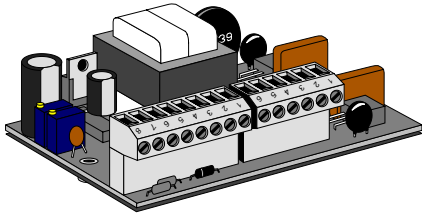
| Voltage | Snaptrack [®] Mount | List | Standoff Mount | List | Compact Module | List |
|---------|------------------------------|-----------|----------------|-----------|----------------|-----------|
| 117VAC | AMC-100 | \$ 198.00 | AMC-100A | \$ 194.00 | AMC-102 | \$ 162.50 |
| 234VAC | AMC-100B | \$ 228.50 | AMC-100C | \$ 224.25 | AMC-102A | \$ 172.50 |
| 24VAC | AMC-100D | \$ 206.75 | AMC-100E | \$ 204.25 | AMC-102B | \$ 162.50 |

5A Controllers

| Voltage | Snaptrack [®] Mount | List | Standoff Mount | List |
|---------|------------------------------|-----------|----------------|-----------|
| 117VAC | AMC-101 | \$ 229.50 | AMC-101A | \$ 194.00 |
| 234VAC | AMC-101B | \$ 265.25 | AMC-101C | \$ 224.25 |
| 24VAC | AMC-101D | \$ 244.25 | AMC-101E | \$ 204.25 |

AC Electric Actuator Products

Log Rate Controllers (AC analog servo)

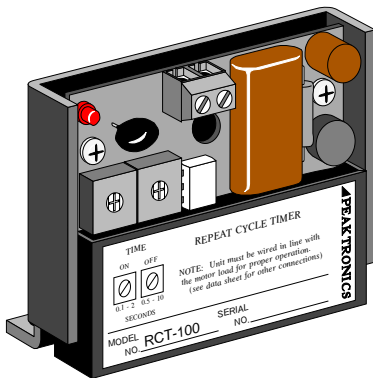


LRC-101x

The **LRC Series** Log Rate Controllers are AC motor controllers designed to be used with electric actuators that are used in continuous modulating applications. These units can extend actuator life by averaging rapidly changing signals. The unit logarithmically approaches the desired position by continuously varying the duty cycle which extends the actuator's *Process Time*. The LRC Series can be installed in any application that would otherwise use an AMC-100/AMC-101 unit.

| Voltage | 2 minute Process Time | 75 second Process Time | 30 second Process Time | List |
|---------|-----------------------|------------------------|------------------------|-----------|
| 117VAC | LRC-101A | LRC-101G | LRC-101D | \$ 199.00 |
| 234VAC | LRC-101B | LRC-101H | LRC-101E | \$ 230.00 |
| 24VAC | LRC-101C | LRC-101I | LRC-101F | \$ 209.00 |

Repeat Cycle Timers



**RCT-100
RCT-100A
RCT-100B**

The **RCT Series** Repeat Cycle Timers are used to lengthen the time an actuator requires to move from one extreme to the other by cycling the actuator on and off; the on and off times are adjustable. The simple 2-wire connection allows the unit to be easily installed by connecting it in series with one of the motor wires and can be used with or without a positioner. The unit can be wired to lengthen the open time only, the close time only, or both. Different times for open and close can be achieved by installing two units.

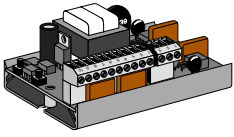
| Voltage | Model | List |
|---------|----------|----------|
| 117VAC | RCT-100 | \$ 81.50 |
| 234VAC | RCT-100A | \$ 84.50 |
| 24VAC | RCT-100B | \$ 79.00 |

Mounting Bracket (required with some actuators)

| Model | List |
|---------|---------|
| MTB-102 | \$ 5.50 |

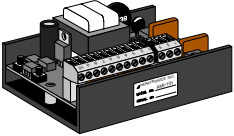
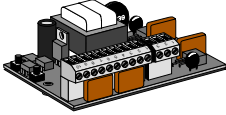
AC Electric Actuator Products

On/Off Controllers



AMI-100
AMI-100B
AMI-100D

AMI-100A
AMI-100C
AMI-100E
AMI-101A
AMI-101C
AMI-101E



AMI-101
AMI-101B
AMI-101D

The **AMI Series** AC Motor Interfaces are On/Off Controllers that provide all the motor drive circuits for commonly used control signals. These units eliminate the need for special algorithms or external relays and protective components. The units accept a wide range of control input signals to open and close the actuator, ranging from low level DC (such as TTL or CMOS) to high level AC (up to 130VAC) that is compatible with triac or relay output cards. The unit also has a built-in cycle timer function which can be used to adjust the open-to-close time, the close-to-open time, or both. The AMI Series can be installed in any actuator that can accommodate an AMC-100/101 unit.

2A Controllers

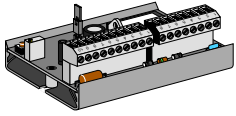
| Voltage | Snaptrack® Mount | List | Standoff Mount | List |
|---------|------------------|-----------|----------------|-----------|
| 117VAC | AMI-100 | \$ 198.00 | AMI-100A | \$ 194.00 |
| 234VAC | AMI-100B | \$ 228.50 | AMI-100C | \$ 224.25 |
| 24VAC | AMI-100D | \$ 206.75 | AMI-100E | \$ 204.25 |

5A Controllers

| Voltage | Snaptrack® Mount | List | Standoff Mount | List |
|---------|------------------|-----------|----------------|-----------|
| 117VAC | AMI-101 | \$ 229.50 | AMI-101A | \$ 194.00 |
| 234VAC | AMI-101B | \$ 265.25 | AMI-101C | \$ 224.25 |
| 24VAC | AMI-101D | \$ 244.25 | AMI-101E | \$ 204.25 |

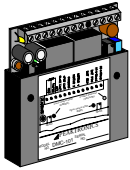
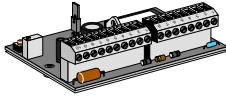
DC Electric Actuator Products

DC Positioning Controllers (DC analog servo)



**DMC-100
DMC-100B
DMC-100D**

**DMC-100A
DMC-100C
DMC-100E**



DMC-101

The **DMC Series** DC Motor Controllers provide proportional positioning for actuators that use DC motors. The unit operates over a range of 10 to 30 VDC and powers locked rotor currents up to 15A. The unit utilizes dynamic braking which can eliminate mechanical brakes in some applications. Some of the units are available with a current trip relay which can be used to prevent excess torque when the actuator is overloaded. These units can also be used to operate DC solenoids for pneumatic actuators.

| Current | Snaptrack® Mount | List | Standoff Mount | List | Trip Relay |
|---------|------------------|-----------|----------------|-----------|------------|
| 0-15 A | DMC-100 | \$ 219.00 | DMC-100A | \$ 216.50 | NO |
| 0.2-5 A | DMC-100B | \$ 250.75 | DMC-100C | \$ 248.25 | YES |
| 2-15 A | DMC-100D | \$ 250.75 | DMC-100E | \$ 248.25 | YES |

| Current | Compact Module | List |
|---------|----------------|-----------|
| 0-5 A | DMC-101 | \$ 165.50 |

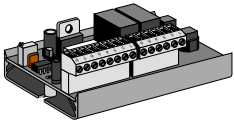
SLR Series

The **SLR Series** Surge Limiting Resistors are used in conjunction with DC Motor Controllers to limit high locked rotor currents found on some DC Actuators while not impairing normal operation. When used, these devices can extend the service life of the controller and reduce load requirements of the DC power source.

| Resistance | Model | List |
|------------|---------|----------|
| 1 ohm | SLR-100 | \$ 10.00 |
| 2 ohm | SLR-101 | \$ 10.00 |

DC Electric Actuator Products

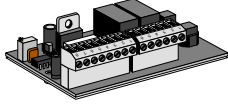
Relay Current-Trip Modules (On/Off Controllers)



RCM-101
RCM-102

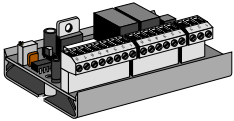
The **RCM-101/RCM-102 Series** Relay Current-trip Modules are DC actuator motor controllers that shutdown the motor when the adjustable current limit is exceeded. The units are operated by external switches, relays, or transistors that drive the OPEN and CLOSE inputs of the unit. The units also include on-board switches that allow for convenient local operation of the actuator. These units operate over a wide voltage range from 10.25 to 36 VDC.

RCM-101A
RCM-102A



Standard Units (not conformally coated)

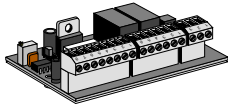
| Snaptrack® Mount | List | Standoff Mount | List | 1-5mA Feedback |
|---------------------|-----------|-------------------|-----------|-------------------|
| RCM-101 | \$ 143.00 | RCM-101A | \$ 140.00 | NO |
| RCM-101B | \$ 159.75 | RCM-101C | \$ 156.75 | YES |



RCM-101B
RCM-102B

Conformally Coated Units

RCM-101C
RCM-102C

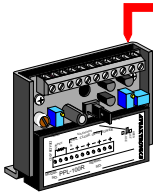


| Snaptrack® Mount | List | Standoff Mount | List | 1-5mA Feedback |
|---------------------|-----------|-------------------|-----------|-------------------|
| RCM-102 | \$ 158.25 | RCM-102A | \$ 155.50 | NO |
| RCM-102B | \$ 175.00 | RCM-102C | \$ 172.00 | YES |

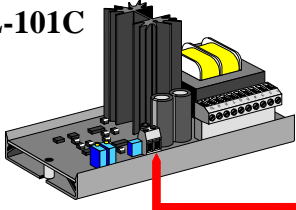
Pneumatic Actuator Products

Power Loop Controllers (2-wire pneumatic servo)

PPL-100R



PPL-100C
PPL-101C

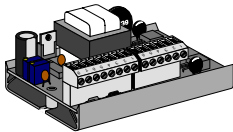


2-wire Power Loop

The Peaktronics Power Loop is a 2-wire connection that is ideal for pneumatic actuator applications where AC power is not available at the actuator. The 2-wire Power Loop powers the positioner (the PPL-100R Remote Module) while carrying the command signal to the actuator and a position feedback signal from the actuator. The PPL-100R Remote Module is a compact solid state positioner that can be used to replace bulky and costly I/P controls in new or existing installations (using existing wires). The PPL-100C and PPL-101C Command Modules are used to interface commonly used signals for the command and feedback to the Power Loop. The Command Module is mounted in control panels where AC power and control signals are available.

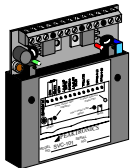
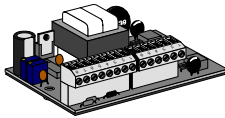
| Model | Description | List |
|----------|----------------------------|-----------|
| PPL-100C | 117VAC Command Module | \$ 228.00 |
| PPL-101C | 234VAC Command Module | \$ 245.00 |
| PPL-100R | Remote Module (positioner) | \$ 192.00 |

Solenoid Valve Controllers (AC powered pneumatic servo)



SVC-100
SVC-100B
SVC-100D

SVC-100A
SVC-100C
SVC-100E



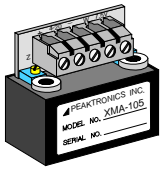
SVC-101
SVC-101A
SVC-101B

The **SVC Series** Solenoid Valve Controllers provide proportional positioning for pneumatic actuators. When AC power is available, these units are ideal for replacing bulky and costly I/P controls. The unit controls two external AC solenoid valves which in turn control the air lines to the *open* and *close* ports on the actuator.

| Voltage | Snaptrack® Mount | List | Standoff Mount | List | Compact Module | List |
|---------|------------------|-----------|----------------|-----------|----------------|-----------|
| 117VAC | SVC-100 | \$ 198.00 | SVC-100A | \$ 194.00 | SVC-101 | \$ 162.50 |
| 234VAC | SVC-100B | \$ 228.50 | SVC-100C | \$ 224.25 | SVC-101A | \$ 172.50 |
| 24VAC | SVC-100D | \$ 206.75 | SVC-100E | \$ 204.25 | SVC-101B | \$ 162.50 |

Actuator Accessories

Feedback Signal and Command Signal Products

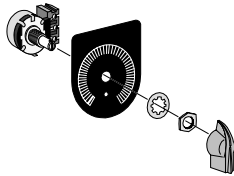


XMA-105
XMA-106

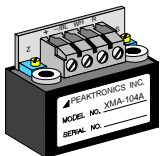
Feedback Signal Transmitters

For AMC/AMI/LRC/SVC/DMC Series controllers using 1K to 10K ohm feedback potentiometers (not for use with AMC-102 and SVC-101 Series controllers)

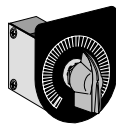
| Model | Description | List |
|---------|---|----------|
| XMA-105 | Feedback Potentiometer Transmitter, 4-20mA | \$ 96.00 |
| XMA-106 | Feedback Potentiometer Transmitter, 0-5/10V | \$ 96.00 |



POT-101



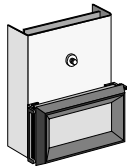
XMA-104A



MLT-100A

Command Signal Products

| Model | Description | List |
|----------|---|-----------|
| POT-101 | Command Potentiometer, 1K ohm (terminates with screw terminals; includes 0-100% dial plate and knob) | \$ 25.00 |
| XMA-104A | Command Potentiometer Transmitter (2-wire 4-20mA transmitter for use with 100 to 100K ohm potentiometers) | \$ 74.00 |
| MLT-100A | Manual Loop Transmitter (panel mount unit; includes XMA-104A, bracket, 1K ohm 1 turn potentiometer, 0-100% dial plate, and knob) | \$ 122.50 |

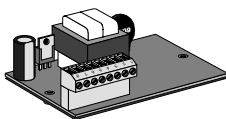


CLI-100B

Displays and Power Supplies

| Model | Description | List |
|----------|--|-----------|
| CLI-100B | Current Loop Indicator, 4-20mA (includes bezel and hardware to panel mount) | \$ 225.75 |
| PWR-102 | 24VDC / 60mA Power Supply, 117VAC (fits on most MKT Series mounting kits and powers XMA-105 or XMA-106 transmitter) | \$ 77.75 |
| PWR-102A | 24VDC / 60mA Power Supply, 234VAC (fits on most MKT Series mounting kits and powers XMA-105 or XMA-106 transmitter) | \$ 81.00 |

PWR-102
PWR-102A

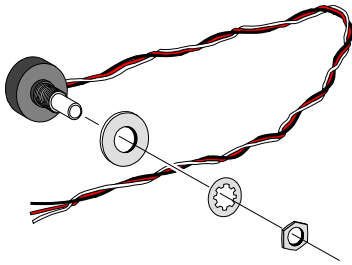


Mounting Hardware

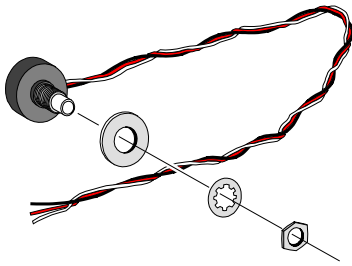
| Model | Description | List |
|---------|--|-----------|
| FTE-100 | Field Terminal Enclosure (NEMA 4X enclosure that includes bracket, hardware, and terminal strip for mounting to Raymond Group 9 actuators) | \$ 237.00 |
| FTE-101 | Field Terminal Enclosure (NEMA 4X enclosure that includes 4-20mA loop isolator, brackets, hardware, and terminal strip for mounting to Raymond Group 9 actuators) | \$ 481.75 |

Actuator Accessories

Feedback Potentiometers



**POT-102
POT-110
POT-111**



POT-106

| Turns | Resistance (ohms) | Special Features | Model | List |
|-------|-------------------|----------------------------------|---------|-----------|
| 1 | 1K | 0.5" shaft length | POT-102 | \$ 32.50 |
| 1 | 1K | slotted shaft | POT-105 | \$ 32.50 |
| 1 | 1K | 0.25" shaft length | POT-106 | \$ 35.25 |
| 1 | 1K | 0.125" shaft bore w/set screws | POT-107 | \$ 43.00 |
| 3 | 1K | | POT-103 | \$ 32.50 |
| 10 | 1K | | POT-104 | \$ 32.50 |
| 10 | 1K | 0.25" shaft length w/0.125" bore | POT-108 | \$ 43.00 |
| 1 | 1K | dual element | POT-109 | \$ 102.00 |
| 1 | 2K | 50% electrical range | POT-110 | \$ 34.00 |
| 1 | 5K | 0.5" shaft length | POT-111 | \$ 32.50 |

Thermal Event Latches

Thermal Event Latches are used to shutdown actuator motors in response to a thermal condition, or any other condition, by using a normally closed contact connected to the thermal switch input. The units have an on-board reset switch and provide a 5A Form-C relay for external alarm indication.

| Voltage | Snaptrack® Mount | List | Standoff Mount | List |
|---------|------------------|----------|----------------|----------|
| 24VAC | TEL-101 | \$ 71.00 | TEL-100 | \$ 87.00 |
| 117VAC | TEL-101A | \$ 88.00 | TEL-100A | \$ 90.00 |
| 234VAC | TEL-101B | \$ 94.00 | TEL-100B | \$ 94.00 |
| 12VDC | TEL-101C | \$ 72.00 | TEL-100C | \$ 94.00 |
| 24VDC | TEL-101D | \$ 72.00 | TEL-100D | \$ 71.00 |

Actuator Mounting Kits

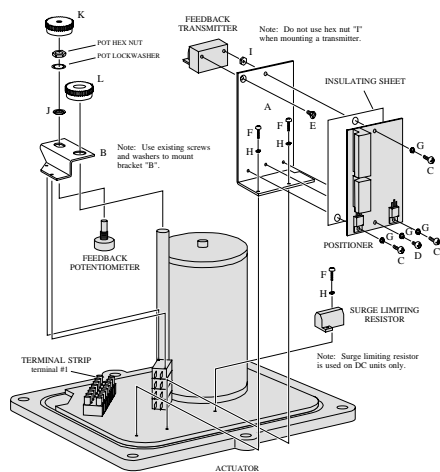
Feedback Potentiometer Mounting Kits

Feedback Potentiometer Mounting Kits provide all the necessary hardware to add a Peaktronics feedback potentiometer to a variety of actuators. See Electric Actuator Mounting Kits for additional applications.

| Actuator Make | Actuator Model | Description | Model | List |
|---------------|-------------------|--|---------|----------|
| Koei | Unic 10 | includes bracket and gears | MKT-131 | \$ 40.00 |
| Koei | Unic 20, 40 | includes bracket and gears | MKT-132 | \$ 40.00 |
| Tyco | EPI-6, 13, 36, 51 | includes bracket, gears, and 3 position terminal strip | MKT-134 | \$ 43.00 |
| Tyco | EPI-91, 151 | includes bracket, gears, and 3 position terminal strip | MKT-133 | \$ 43.00 |

Actuator Mounting Kits

Electric Actuator Mounting Kits



MKT-106

Mounting Kits provide all the necessary hardware to mount Peaktronics positioners, transmitters, and feedback potentiometers in a variety of commercially available actuators.

- A** - includes gears for installing feedback potentiometer
- B** - mounts AMC-100/101, AMI-100/101, DMC-100, LRC-101, RCM-101/102, or PWR-102 Series
- C** - mounts AMC-102 Series or DMC-101 positioner
- D** - mounts transmitter
 - 1 - mounts transmitter **-or-** positioner, not both
 - 2 - mounts transmitter **-or-** TEL-100 Series, not both
- E** - mounts PAM-100 Series PACS® positioner

| Actuator Make | Actuator Model | A | B | C | D | E | Model | List |
|----------------|---|---|---|---|---|---|---------|-----------|
| Asahi | Series 92 | X | X | | X | X | MKT-118 | \$ 68.00 |
| Asahi | Series 92 (1:3 ratio) | X | X | | X | X | MKT-124 | \$ 120.00 |
| Asahi | Series 94 | X | | X | 1 | | MKT-117 | \$ 68.00 |
| Automax | CE1, 2, 4, & 7 AC or DC extended duty | X | X | X | X | | MKT-111 | \$ 68.00 |
| Bettis | EM-212, 300 | X | | X | 1 | | MKT-122 | \$ 68.00 |
| Bettis | EM-400 multiturn (4-15 turns) | X | X | | X | | MKT-112 | \$ 68.00 |
| Bettis | EM-400, 410, 420 (NEMA 4 & 7) | X | X | | X | X | MKT-115 | \$ 68.00 |
| Bettis | EM-500, 510, 520 (NEMA 4 & 7) | X | X | | X | | MKT-128 | \$ 68.00 |
| Bettis | EM-810, 820, 830, 840 | X | X | | X | X | MKT-120 | \$ 68.00 |
| Burkert | Type 3001/3002 | X | X | X | X | X | MKT-108 | \$ 68.00 |
| El-O-Matic | EL-100, 150, 200, 350, 500, & 800 | X | X | | 2 | X | MKT-109 | \$ 68.00 |
| Raymond | Group 9 (NEMA 4 & 7), requires Raymond gears | | X | | X | | MKT-103 | \$ 43.00 |
| Raymond | Group 9 (NEMA 4 & 7) | X | X | | X | | MKT-107 | \$ 68.00 |
| Raymond | Group 9 (NEMA 4 & 7) | X | X | | | X | MKT-123 | \$ 68.00 |
| Raymond | Group 12/16 (NEMA 4 & 7) | | X | | X | X | MKT-104 | \$ 43.00 |
| Raymond | Group 12/16/25 multiturn (NEMA 4 & 7) | | X | | X | X | MKT-105 | \$ 43.00 |
| Raymond | MAR-8RH, DCR-8-RH | | | X | 1 | | MKT-113 | \$ 43.00 |
| Raymond | MAR-8RH, DCR-8-RH | | X | | X | | MKT-116 | \$ 68.00 |
| Raymond | converts MAR-8RH, DCR-8-RH to multiturn (1-9 turns) | X | X | | X | | MKT-114 | \$ 96.00 |
| Remote Control | RCE-15,30 | X | | X | 1 | | MKT-117 | \$ 68.00 |
| Remote Control | RCE-40, 70, 110, 200 | X | X | | X | X | MKT-118 | \$ 68.00 |
| Remote Control | RCE-40, 70, 110, 200 | X | X | | X | X | MKT-124 | \$ 120.00 |
| Remote Control | RCEL-004, 006, 009 (Noah) | X | X | | X | | MKT-127 | \$ 68.00 |
| Remote Control | RCEL-004, 006, 009 (Noah) | X | | X | 1 | | MKT-121 | \$ 68.00 |
| Remote Control | RCEL-015, 019, 028, 038, 050, 060, 080, 100, 150, 200, 250 (Noah) | X | X | | X | | MKT-119 | \$ 68.00 |
| Remote Control | sub panel for Noah, requires MKT-119 or MKT-121 kit | | X | | X | X | MKT-125 | \$ 43.00 |
| Tyco | EPI-3 continuous duty (NEMA 4 & 7) | X | | X | 1 | | MKT-110 | \$ 68.00 |
| Tyco | EPI-6, 13, 36, 51, 91, 151 continuous duty (NEMA 4 & 7) | X | X | | X | X | MKT-106 | \$ 68.00 |
| Worcester | Series 75 (NEMA 4, 7, & 9), sizes 10, 12, 15, 20 and 22 | X | X | | X | | MKT-102 | \$ 74.00 |
| Worcester | Series 75 (NEMA 4, 7, & 9), sizes 10, 12, 15, 20 and 22 | | X | | X | | MKT-129 | \$ 43.00 |

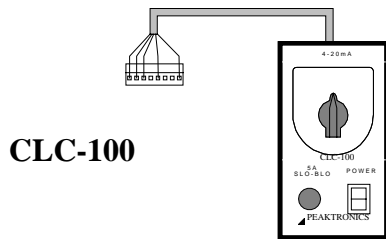
Actuator Mounting Kits

Pneumatic Actuator Switch Box Mounting Kit

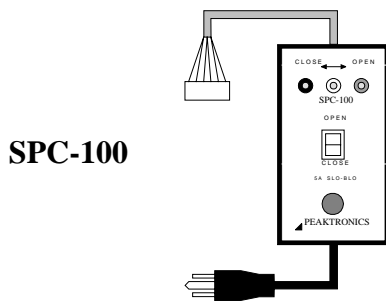
The **MKT-126** mounting kit provides all the necessary hardware to mount the PPL-100R positioner in an Accord Ultraswitch AGL Series, GO[®] Switch 4SPK Switchpak, or a Topworx Switchpak[™]. The Peaktronics 2-wire Power Loop is the only connection needed to proportionally control the actuator and to send a position feedback signal back to the control panel.

| Model | Description | List |
|---------|---|----------|
| MKT-126 | mounts PPL-100R positioner and includes gears for installing feedback potentiometer | \$ 68.00 |

Actuator Test Equipment

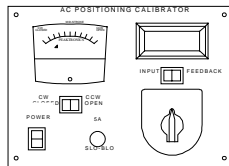


CLC-100

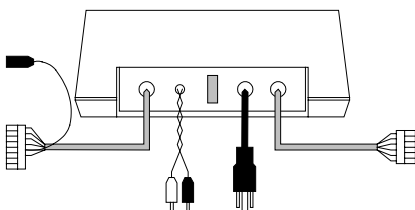


SPC-100

APC-100



Control Panel

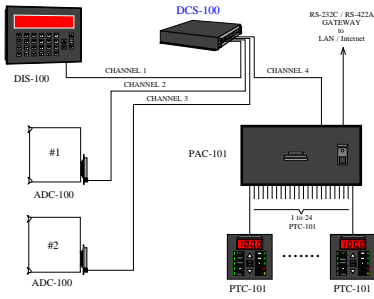


Back Panel

| Model | Description | List |
|---------|---|------------|
| CLC-100 | Current Loop Calibrator (4-20mA generator for calibrating all 117VAC AMC-100/101, LRC-101, and SVC-100 units) | \$ 270.00 |
| SPC-100 | Switch/Pot Calibrator (Open-close motor switch used to calibrate actuator limit switches and binding posts to monitor feedback pot resistance. Works with all 117VAC AMC-100/101, LRC-101, and SVC-100 units.) | \$ 200.00 |
| APC-100 | AC Positioning Calibrator (Bench style calibrator with feedback pot meter, 4-20mA generator, and 4-20mA digital input/feedback meter for calibrating 117VAC positioners; VCM Modules adapt unit for other voltages.) | \$ 1000.00 |
| VCM-100 | Voltage Converter Module, 24VAC (Plugs into APC-100 to convert 117VAC power to 24VAC for calibrating 24VAC actuators.) | \$ 300.00 |
| VCM-101 | Voltage Converter Module, 234VAC (Plugs into APC-100 to convert 117VAC power to 234VAC for calibrating 234VAC actuators.) | \$ 300.00 |
| VCM-102 | Voltage Converter Module, 12/24VDC (Plugs into APC-100 to convert 117VAC power to 12/24VDC for calibrating 12/24VDC actuators.) | \$ 650.00 |
| CIC-100 | Calibrator Interface Cable (Interfaces APC-100 calibrator to FTE-100/101 enclosures.) | \$ 100.00 |

PACS® Communication Equipment

Data Control Systems



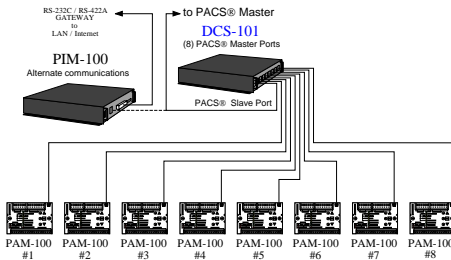
DCS-100

DCS-100

The **DCS-100** Data Control System is a PACS® Network controller intended to connect up to 24 PTC-101 Temperature Controllers (through a PAC-101 Interchange) to a common display, the DIS-100. From the DIS-100, an operator can monitor or control each PTC-101. Optionally, two ADC-100 A/D Cards can be connected to network the remote sense points for each PTC-101. The DCS-100 also has a PACS® Level I Slave port, and with an appropriate interface (such as the PIM-100), a factory computer system can access the PACS® Network.

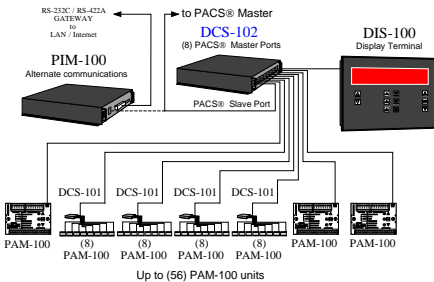
DCS-102

The **DCS-102** Data Control System provides for extremely versatile systems while requiring no field programming. The unit automatically configures the system for any number of PAM-100 or DCS-101 units by merely connecting the PACS® cables. The system allows control of anywhere from 1 to 56 PAM-100 Actuator Modules which are easily accessed from the DIS-100 Display Terminal.



DCS-101

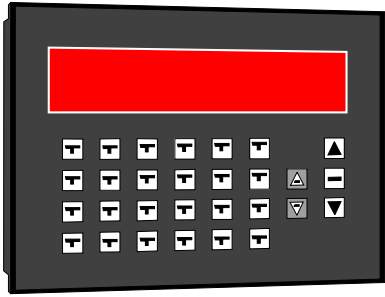
| Model | Description | List |
|---------|---|-----------|
| DCS-100 | PACS® network controller for (24) PTC-101's, (2) ADC-100's (optional), and operator control from a DIS-100. PAC-101 24 Channel PACS® Interchange required to connect PTC-101's. | \$ 521.50 |
| DCS-101 | networks (8) PAM-100 PACS® Actuator Modules | \$ 521.50 |
| DCS-102 | PACS® network controller for (7) DCS-101/PAM-100 units and operator control from a DIS-100 | \$ 521.50 |



DCS-102

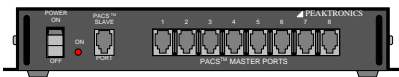
PACS® Communication Equipment

Displays and Interfaces

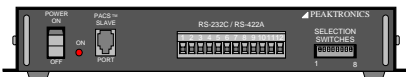


DIS-100

| Model | Description | List |
|---------|--|-------------|
| DIS-100 | Display Terminal (PACS® Level I Slave) | \$ 1,783.00 |
| PAC-101 | 24 Channel PACS® Level I Interchange (compatible with RS-232C/RS-422A) | \$ 1,848.25 |
| PAC-102 | 8 Channel PACS® Level II Interchange | \$ 521.50 |
| PIM-100 | RS-232C/RS-422A PACS® Master Module (converts RS-232C/RS-422A to a PACS® Level II Master) | \$ 538.50 |
| PIM-101 | RS-232C/RS-422A PACS® Slave Module (converts RS-232C/RS-422A to a PACS® Level II Slave) | \$ 538.50 |



PAC-102



**PIM-100
PIM-101**

Data Acquisition Cards (cards include CON-102 connector)

| Model | Description | List |
|---------|--|-----------|
| ADC-100 | 12 Channel 4-20mA A/D Input Card (PACS® Level I Slave port, sink or source input, 2000 counts resolution) | \$ 585.00 |
| DAC-100 | 8 Channel 4-20mA D/A Output Card, 8 bit resolution (PACS® Level I Slave port, sink or source output) | \$ 741.25 |
| DAC-101 | 8 Channel 4-20mA D/A Output Card, 12 bit resolution (PACS® Level I Slave port, sink or source output) | \$ 858.75 |

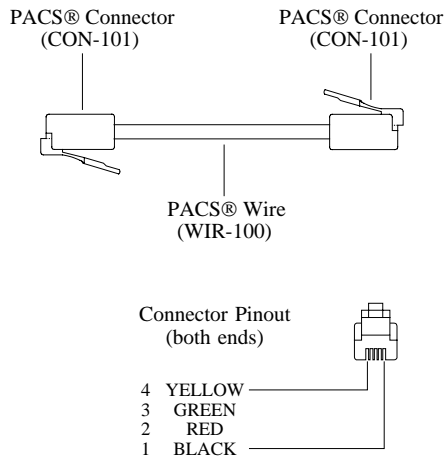
PACS® Communication Equipment

Mounting Rack Hardware

| Model | Description | List |
|---------|---|-----------|
| CAG-100 | 19" Rack Mount Card Cage (holds 12 cards) | \$ 260.00 |
| CON-102 | 18 Position Card Edge Connector | \$ 52.50 |
| PWR-100 | 5V / 6A Power Supply (powers one CAG-100 rack) | \$ 127.50 |
| PWR-101 | 24V / 3.6A Power Supply (powers one CAG-100 rack) | \$ 196.00 |

PACS® Wiring and Modular Enclosure Accessories

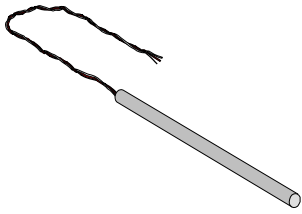
Standard PACS® Cable



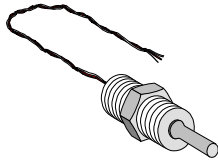
| Model | Description | List |
|---------|--|------------|
| CON-101 | PACS® Modular Connector | \$ 0.50 |
| WIR-100 | PACS® Modular Wire | \$ 0.10/ft |
| TOL-100 | PACS® Modular Crimping Tool | \$ 35.00 |
| LCS-100 | Line Cord, Straight, 6 ft | \$ 12.50 |
| LCR-100 | Line Cord, Right Angle, 6 ft | \$ 12.50 |
| PCS-100 | Power Connector, Straight | \$ 7.50 |
| PCR-100 | Power Connector, Right Angle | \$ 8.50 |
| PMS-100 | PACS® Modular Spacer Kit (hardware to stack two PACS® Modular enclosures) | \$ 6.00 |

Temperature Processing

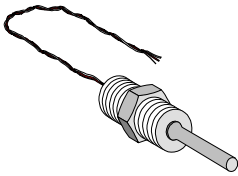
Sensors and Probes



TSP-100



TSP-101



TSP-102

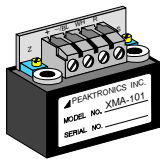
-40 to 230 °F Sensors and Probes

| Model | Package Description | List |
|---------|---|----------|
| TSP-100 | 1/4" X 6" 316 S.S. | \$ 50.00 |
| TSP-101 | 1/4" X 1 1/4" 316 S.S. with 1/2"-NPT nipple | \$ 90.50 |
| TSP-102 | 1/4" X 2" 316 S.S. with 1/2"-NPT nipple | \$ 90.50 |
| TSP-103 | #8 mounting lug | \$ 35.00 |
| TSP-104 | sensor element, compatible with TSF-100 fitting | \$ 30.00 |
| TSP-105 | sensor element, compatible with TSF-101 fitting | \$ 30.00 |
| TSP-106 | 1/4" X 12" 316 S.S. | \$ 52.50 |
| TXP-100 | probe, 1/4" X 1/4" Brass with 1/8"-NPT | \$ 74.00 |

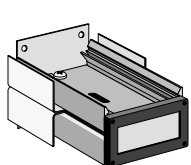
Sensor Accessories

| Model | Package Description | List |
|---------|---|----------|
| TSF-100 | Temperature Sensor Fitting for TSP-104 (1/4" X 1 1/4" 316 S.S. with 1/2"-NPT nipple) | \$ 64.50 |
| TSF-101 | Temperature Sensor Fitting for TSP-105 (1/4" X 2" 316 S.S. with 1/2"-NPT nipple) | \$ 64.50 |
| HSC-100 | Heatsink Compound, silicone free, 2 oz. tube (use with TSF-100 and TSF-101) | \$ 20.00 |

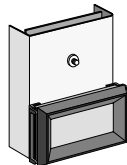
4-20mA Transmitters and Monitors



XMA-101



CLI-100A

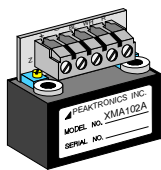


CLI-100B

4-20mA Transmitters and Monitors

| Model | Package Description | List |
|----------|---|-----------|
| XMA-101 | 4-20mA (2-wire) Transmitter (compatible w/TSP Sensors, 0 to 200 °F) | \$ 58.00 |
| ATT-100 | Air Temperature Transmitter (TSP-100, XMA-101, and JBX-100) | \$ 131.50 |
| CLI-100A | Current Loop Indicator (includes hardware to contain XMA-101 or XMA-102x in EIH-100 housing) | \$ 220.00 |
| CLI-100B | Current Loop Indicator (includes bezel and hardware to panel mount) | \$ 225.75 |

Temperature Processing



XMA-102x

4-20mA (2-wire) Special Range Transmitter (compatible w/TSP Sensors)

| Model | Package Description | List |
|----------|---------------------|----------|
| XMA-102A | -40 to 160 °F | \$ 96.00 |
| XMA-102B | -20 to 180 °F | |
| XMA-102C | 0 to 100 °F | |
| XMA-102D | 50 to 150 °F | |
| XMA-102E | 100 to 200 °F | |

Air Temperature Transmitter (TSP-100, XMA-102x, and JBX-100)

| Model | Package Description | List |
|----------|---------------------|-----------|
| ATT-101A | -40 to 160 °F | \$ 169.50 |
| ATT-101B | -20 to 180 °F | |
| ATT-101C | 0 to 100 °F | |
| ATT-101D | 50 to 150 °F | |
| ATT-101E | 100 to 200 °F | |

Mounting Hardware

| Model | Package Description | List |
|---------|---|-----------|
| CHD-100 | Connection Head, 90° (Crouse-Hinds Nos. LB19, 190, and GASK1941) | \$ 21.00 |
| CHD-101 | Connection Head, 180° (Crouse-Hinds Nos. C19, 190, and GASK1941) | \$ 21.00 |
| ECH-100 | Explosion Proof Connection Head, 90° (Crouse-Hinds No. GUAL16) | \$ 63.50 |
| ECH-101 | Explosion Proof Connection Head, 180° (Crouse-Hinds No. GUAC16) | \$ 63.50 |
| EIH-100 | Explosion Proof Instrument Housing, 180° (Adalet No. XIHDGC2, two 1/2" NPT ports, NEMA 4/7) | \$ 225.00 |
| JBX-100 | Junction Box, weather proof (includes cover, gasket, fitting, and transmitter mounting hardware) | \$ 23.50 |
| MTB-100 | Mounting Bracket (mounts XMA-101 or XMA-102x in ECH-100 or ECH-101 Connection Heads) | \$ 8.75 |

Temperature Processing

PACS® Temperature Controller



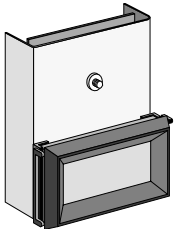
PTC-101

The **PTC-101** PACS® Temperature Controller is a three point controller that implements PID closed loop control. The three point system relies on sense points at the inlet and outlet of the controlled device, and a third sense point at a key remote location far removed from the control device. The unit can be configured for a variety of applications by way of internal option switches. Once configured, the unit is easily operated with the three button controls on the front panel. The PTC-101 can be fully controlled and operated through a PACS® Network. See DCS-100 network controller.

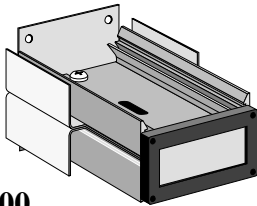
| Model | Package Description | List |
|---------|---|-----------|
| PTC-101 | PACS® Temperature Controller, 0 to 200 oF | \$ 651.25 |
| CON-100 | 15 Terminal Edge Connector | \$ 23.50 |

Frequency/Flow Processing

Frequency Measuring and Display Products



CLI-100B



**CLI-100
CLI-100C**

| Model | Package Description | List |
|----------|---|-----------|
| FVC-100 | Frequency to Voltage Converter, 1 to 10,000 Hz (0-10V/4-20mA output, mounted on Snaptrack®) | \$ 125.50 |
| CLI-100 | Current Loop Indicator (includes hardware to contain FVC-100 in EIH-100 or EIH-101 housing) | \$ 218.75 |
| CLI-100B | Current Loop Indicator (includes bezel and hardware to panel mount) | \$ 225.75 |
| CLI-100C | Current Loop Indicator (includes hardware to contain unit in EIH-100 or EIH-101 housing) | \$ 220.00 |

Frequency/Flow Processing

Mounting Hardware

| Model | Package Description | List |
|---------|--|-----------|
| ECH-102 | Explosion Proof Housing, includes cover (Crouse-Hinds Nos. EDSC271 and DSD957) | \$ 117.00 |
| MTB-101 | Mounting Bracket (mounts FVC-100 in ECH-102 housing) | \$ 15.75 |
| EIH-100 | Explosion Proof Instrument Housing, 180° (Adalet No. XIHDGC2, two 1/2" NPT ports, NEMA 4/7) | \$ 225.00 |
| EIH-101 | Explosion Proof Instrument Housing, 180° (Adalet No. XIHDGC3, two 3/4" NPT ports, NEMA 4/7) | \$ 225.00 |

Conductivity Process Monitors

The **CPM-100** Conductivity Process Monitors can accommodate a variety conductivity ranges and a variety of probes. Call with your specific needs before ordering.

| Voltage | Model | List |
|---------|----------|-----------|
| 117VAC | CPM-100 | \$ 155.00 |
| 234VAC | CPM-100A | \$ 164.00 |
| 24VAC | CPM-100B | \$ 161.00 |

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| AMC-101E | 1 | ECH-101 | 15 | MLT-100A | 7 | SVC-100C | 6 |
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| CAG-100 | 13 | MKT-105 | 9 | POT-110 | 8 | TSP-104 | 14 |
| CHD-100 | 15 | MKT-106 | 9 | POT-111 | 8 | TSP-105 | 14 |
| CHD-101 | 15 | MKT-107 | 9 | PPL-100C | 6 | TSP-106 | 14 |
| CIC-100 | 10 | MKT-108 | 9 | PPL-100R | 6 | TXP-100 | 14 |
| CLC-100 | 10 | MKT-109 | 9 | PPL-101C | 6 | VCM-100 | 10 |
| CLI-100 | 16 | MKT-110 | 9 | PTC-101 | 16 | VCM-101 | 10 |
| CLI-100A | 14 | MKT-111 | 9 | PWR-100 | 13 | VCM-102 | 10 |
| CLI-100B | 7,14,16 | MKT-112 | 9 | PWR-101 | 13 | WIR-100 | 13 |
| CLI-100C | 16 | MKT-114 | 9 | PWR-102 | 7 | XMA-101 | 14 |
| CON-100 | 16 | MKT-113 | 9 | PWR-102A | 7 | XMA-102A | 15 |
| CON-101 | 13 | MKT-115 | 9 | RCM-101 | 5 | XMA-102B | 15 |
| CON-102 | 13 | MKT-116 | 9 | RCM-101A | 5 | XMA-102C | 15 |
| CPM-100 | 17 | MKT-117 | 9 | RCM-101B | 5 | XMA-102D | 15 |
| CPM-100A | 17 | MKT-118 | 9 | RCM-101C | 5 | XMA-102E | 15 |
| CPM-100B | 17 | MKT-119 | 9 | RCM-102 | 5 | XMA-104A | 7 |
| DAC-100 | 12 | MKT-120 | 9 | RCM-102A | 5 | XMA-105 | 7 |
| DAC-101 | 12 | MKT-121 | 9 | RCM-102B | 5 | XMA-106 | 7 |

