

Solid State Meter Relays/ Self-Contained - X Series.



X Series (Compack IV)

Models: 303-X (3 1/2"), 503-X (4 1/2"),
603-X (5 1/2"), 371-X (Edgewise)

- ▲ UL Recognized with suffix "XU" (except Model 371-X)
- ▲ 1% accuracy in most ranges
- ▲ Control independent of meter indication
- ▲ Single and double setpoints
- ▲ High input impedance
- ▲ Fast response
- ▲ Narrow temperature spans
- ▲ Rectangular & stackable edgewise models
- ▲ Customized Scales available
- ▲ On/Off, Alarm, Limit or Time Proportioning Output available

Here are the controllers for your tough jobs - applications where shock or vibration creates problems for mechanical controllers. All control functions in the LFE/api Compack IV controllers (X Series) are provided through integrated circuits to operate independently from the meter. The Compack controller continues to operate even if the meter should become damaged or inoperative. This isolation of control functions meets the need for controllers engineered to provide "laboratory precision" on production machinery.

The Solid-State Compack IV controller processes input signals from thermocouples, RTD, AC or DC sources for control applications involving On/Off, Alarm, Limit, Time Proportioning or cycling control modes.

X Series Specifications

Specifications	DC Ranges		AC Ranges (Rectifier Type)		Pyrometer	
	Current	Voltage	Current	Voltage		
Accuracy	±1% ¹	±1%	±3%	±3%	±1% ¹	
Tracking	±1%	±1%	±1%	±1%	N/A	
Balance	±1%	±1%	±1%	±1%	±1%	
Repeatability	1%	1%	1%	1%	1%	
Resistance Tolerance	±5%	±5%	±5%	±5%	N/A	
Overload Capacity	1 Second	1000%	≤ 100V 1000% > 100V 200%	150%	150%	N/A
	Continuous	150%	120%	150%	150%	N/A
Calibration Frequency	—	—	60 Hz	60 Hz	N/A	
Overshoot (maximum)	20%	20%	20%	20%	N/A	
Response Time (typical)	1.0 sec	1.0 sec	1.0 sec	1.0 sec	N/A	

¹ Accuracy for ranges <0-5μADC and Thermocouple spans < 300°F is ±2%

Supply Power: 120VAC 50-60Hz - 6VA (220V or 240V optional)
Load Relay Rating: SPDT 215VA @ 120VAC



Effects of shock, vibration, humidity and temperature are equal to or better than ANSI C39.1-1981.
Safety (dielectric test, leakage and other hazards): instruments are equal to or better than ANSI C39.5-1974.
The above tolerance limits apply to the standard ranges listed in this bulletin. Special instruments may vary from these limits.
Rated circuit to ground voltage = 250 Vrms (350 Peak).

X Series Dimensions

Model	Height	Width	Depth*
303-X (3 1/2")	3.13	3.28	5.50
503-X (4 1/2")	4.27	4.71	5.50
603-X (5 1/2")	4.36	5.75	5.50
371-X (edgewise)	1.43	3.43	9.65

Dimensions are in inches.

* Depth = front of panel to end of terminals.

See price sheet for part numbers.

Contact Factory for more information & dimensional drawings.

DC Ranges

DC Microamperes	1 to 1000
DC Milliamperes	1 to 100
DC Amperes	use 50mV external shunt
DC Millivolts	1 to 1000
DC Volts	1 to 500

Process Ranges

DC Milliamperes	1-5 4-20 10-50
DC Volts	1-5 0-10

AC Ranges (Rectifier Type)

AC Microamperes	100 to 1000
AC Milliamperes	1 to 1000
AC Amperes	1 to 50
AC Millivolts	1 to 1000
AC Volts	1 to 500

Thermocouple Pyrometer, RTD Pyrometer

Consult Factory