# wall mount **Multi-Channel Process Scanner**

Stand Alone Unit Monitors up to 7 Independent Process Inputs



wMPS 400/450 Series - 4 zones wMPS 700/750 Series - 7 zones



**DESCRIPTION** Housed in a wall mount, water tight plastic enclosure, the wMPS Series

scanner offers a highly functional multi-channel scanner with a number of very useful features. Tasks that require multiple monitors can now be accomplished by using only a single unit. Signals from seven different transducers are brought into screw terminals that are conveniently located and accessed through a sealed plastic cover. The unit automatically scans each channel, displaying the channel number and its process reading.

# POWERFUL DISPLAY MODES

- Large 7-Segment LED Display (0.8")
- Multiple Programmable Display Modes
   scan, timer, high/low channel etc.
- Frequently Used Math Functions
- min/max, rate, deviation, differential, etc.
- Selectable Temperature Units Deg C or F
- Process Readings in Engineering Units
- Programmable Eng Unit Labels PSI, Ft, etc.

# **FULLY PROGRAMMABLE**

- Fully Programmable Via Front Keys
- Programmable Automatic Scanning
- Programmable Channel Display Time
- Hold Feature to Dwell on Any Selected Channel
- Manual Access to All Available Data at All Times
- Program Settings Retained on Power Down
- Individually Programmable Inputs (450/750)

### WIDE RANGE OF INPUTS

- Four & Seven Channel Temperature & Process Inputs
- Thermocouples, RTDs & Thermistors
- Current, Voltage & Millivolt Signals
- Simple Scaling for Voltage, Current & Millivolt Signals
- Each Input Individually Programmable (450/750)
- Multiple Input Types in a Single Unit (450/750)
- Common Input Type for all Inputs (400/700)

### MULTIPLE ALARM OPTIONS

- Programmable Limit for Each Channel
- Built-in Buzzer to Sound Alarm
- Visual Indication of Channel Alarm Status
- Separate Control Relay for Each Channel (Optional)
- Normally Open/Closed, Latching/Non-Latching Relays
- Solid State (Open Collector) Outputs (Optional)
- Power Line Filter for High Reliability



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Signals from thermocouples, rtds and thermistors are linearized and can be displayed in degrees Centigrade or Fahrenheit. Current, voltage and millivolt signals are easily scaled for indicating the process in relevant engineering units. Since up to seven different processes can be displayed on a single scanner, therefore, each channel can be given its own three alphabets long engineering units e.g. PSI, Ft, Yds, etc. Channels are sequentially displayed for a programmed length of time. The hold feature allows for the display to be held indefinitely on any one channel.

wMPS has multiple display modes and can be programmed to scan all channels, display channel with highest or lowest reading, process deviation from a pre-programmed setpoint, display differential between channels or just run as a timer.

Additional features include Min/Max readings and rate of change for all channels. Also provided as an option is a control relay or open collector output for each channel. A built-in buzzer provides an audio alarm whenever a limit is reached. Visual indication of relay output status is given by LEDs on the front panel.

This series is offered in 2 different models: The basic model (wMPS400/700) accepts only one type of transducer signal on all four/seven inputs. Same scaling is applied universally to all channels for linear voltage or current signals. The enhanced version (wMPS450/750) has fully programmable inputs and each channel can be configured independently to accept thermocouples, 4-20ma or voltage signal. Thus one channel could be displaying temperature, while the second channel displays pressure (e.g. 4-20ma) and the third, liquid level (e.g. 0-10vdc).

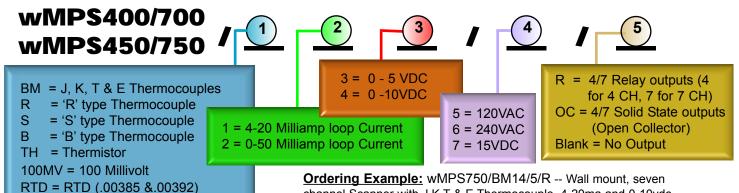
•		•
<u>TYPE</u>	<b>RANGE</b>	<b>ACCURACY</b>
J	-200 to 1190C	+_1C+-1cnt
	-328 to 2174F	+-2F+-1cnt
K	-170 to 1370C	+-1C+-1cnt
	-274 to 2500F	+-2F+-1cnt
T	-160 to 400C	+-1C+-1cnt
	-256 to 752F	+-2F+-1cnt
E	-185 to 915C	+-1C+-1cnt
	-300 to 1675F	+-2F+-1cnt
R	0C to 1600C	+-3C+-1cnt
	32F to 2900F	+-6F+-1cnt
S	0 to 1600C	+-3C+-1cnt
	32 to 2900F	+-6F+-1cnt
В	470 to 1800C	+-3C+-1cnt
	900 to 3300F	+-6F+-1cnt
RTD-385	-200 to 800C	+-1C+-1cnt
	-328 to 1472F	+-2F+-1cnt
RTD-392	-100 to 450C	+-1C+-1cnt
	-148F to 842F	+-2F+-1cnt
Thermistor	-8.0 to 100.0C	+-0.5C+-1ct
	17.2 to 212.0F	+-1.0F+-1ct
Current	1 to 30000	.05%+-1cnt
Milli-volt	1 to 30000	.05%+-1cnt
Voltage	1 to 30000	.05%+-1cnt



Seperate terminal compartment

for ease of wiring

To find a model number, fill in blanks 1, 2, 3, 4 and 5 with appropriate selection. Refer to ordering example below:



channel Scanner with J,K,T & E Thermocouple, 4-20ma and 0-10vdc

inputs, 120vac Power and relay output option.