

**Standard features on all three models include:**

- 5 digit, -19999 to +20999 red LED display
- Display can be user programmed for 3½, 4 or 4½ digits
- Microprocessor controlled A/D
- Four front panel annunciators to display alarm status or status indicators for selectable functions
- Universally powered from 100 to 132VAC, 200-264VAC and 10 to 40VDC
- No calculation setup for scaling and offsetting. Simply enter input and display high and low values
- Display format selection of:
  - decimal point
  - count by 1, 2, 5 or 10
  - least significant "dummy" zero
  - 3½, 4 or 4½ digit display
- Selection for upper and lower limits that when exceeded will cause display to flash
- Programmable A/D functions of:
  - Update time from 10 per second to once every 20 seconds
  - Averaging of programmable 1 to 25 input reading by walking window means
  - Programmable window of measurements that can be allowed in the averaging function
- User configurable non-linear 17 point correction
- User programmable front keys and external input assignments.
- Programmable alarm functions include:
  - Each alarm programmable as:
    - Off
    - High alarm
    - Low alarm
    - Descending alarm
    - Deviation high alarm
    - Deviation low alarm
  - Each alarm output is programmable for:
    1. Normally open/normally closed
    2. On delay – specifies minimum time alarm condition must be true before output is activated
    3. Off delay – specifies minimum time alarm condition must be false before output is deactivated
  - Full range programmable hysteresis
  - Latching operation
  - Outputs may be assigned to input, net, peak #1 or peak #2
  - Fail safe operation
  - Alarm limits directly accessible from front panel
- Max./min. peak detectors with capture delay (signal must be valid for this programmable amount of time to become a valid peak)



Approved



- Second scale factor allows change of display to different engineering units. Typically English to Metric conversions
- CE Approved
- Password function allows lockout of access to programming functions without knowing programmed pass number
- Quick zero and span adjustment from front panel
- Excitation power supply
- Slot on inside of front panel for displaying units of measure from furnished decal sheet
- 1/8 DIN cutout
- Dimensions of 3.62" (92mm) wide by 1.73" (44mm) tall by 4.5" (114.5mm) long
- NEMA 12 rated front panel
- Screw terminal connectors
- Operating temperatures of -10 to +60°C
- Accuracy: .01%

**OPTIONS INCLUDE:**

- Analog Output
- RS232 Bi-directional communications with addressing capabilities
- RS485 Bi-directional communications with addressing capabilities
- Auxiliary voltage supply for potentiometer input
- Auxiliary constant current output
- NEMA 4 cover
- Black case
- Green LED's

**UNIVERSAL INPUT MODELS****Model W3220 With 4 Open Collector Outputs****Model W3221 With SPST Relay Outputs**

- W3220's open collectors are rated 48VDC @ .5A maximum
- W3221's relays are rated 250VAC @ 5A, 24VDC @ 1A maximum

No jumper setting or recalibration required when different sensor type is selected

Universal input selections via keypad are:

- DC voltage ranges of  $\pm 20\text{mV}$  to  $\pm 20\text{V}$  (Accuracy of 0.01%)
- $\pm 20\text{mA}$  DC (Accuracy of 0.02%)
- Temperature selection of:
  1. Thermocouple selections of prelinearized J, K, N, T, R, S (Accuracy of  $.2^\circ\text{C}$  for J, K, T;  $.5^\circ\text{C}$  for N, R, S)
  2. RTD of Pt100 (Accuracy of  $.2^\circ\text{C}$ )
- The following are also programmable under temperature:
  1. Degrees C or F
  2. Resolution of 1, 0.1 and 0.02 (RTD only) degree C; 1 and 0.2 degree F
  3. Automatic or manual ice point compensation
- Internal excitation supply of 24VDC @ 35mA

**STRAIN GAGE MODEL****Model W3240 With 4 Open Collector Outputs****Model W3241 With 2 SPST Relay Outputs**

- W3240's open collectors are rated 48VDC @ .5A
- W3241's relays are rated 250VAC @ 5A, 24VDC @ 1A maximum
- Inputs from  $\pm 20\text{mV}$  to  $\pm 2\text{VDC}$  (Accuracy of 0.02%)
- Calibration is by no calculation scaling and offset or by "load calibration"
- Internal excitation supply of 10VDC @ 120mA will power 4 each 350 ohm load cells on Model W3240. 10VDC @ 35mA on Model W3241

**Options:**

- Option "B" – White case
- Option "D" – Green LED's
- Option "H" – isolated 4-20mA output scalable to desired display range via front panel menu. Programmable to follow display, net, peak 1 or peak 2. Consult factory for 0-10VDC or 1-5VDC output
- Option "N" – NEMA 4 cover
- Option "P" – 2 volt @ 20mA excitation supply (consult factory for supplies from 2 to 15VDC)
- Option "Q" – 2mA constant current supply (consult factory for supplies 2 to 15mA)
- Option "T" – Bi-directional RS232 serial interface. All functions and programming from keypads can be programmed via serial input. Multidrop capabilities. 300 to 9600 baud. Includes programming disk
- Option "U" – Bi-directional RS485 serial interface. All functions and programming from keypads can be programmed via serial input. Multidrop capabilities. 300 to 9600 baud. Include programming disk

*Note: Only one option card "H", "T" or "U" may be installed at a time.*