

NEW



## 6010+™

*Affordable, High Contrast,  
Compact and Easy to Use*

### 1/16 DIN Indicator with Alarm

#### DESCRIPTION

The West 6010+ is a new digital panel indicator providing a high contrast, high visibility display, designed for optimal ease of use in a wide variety of temperature and related process applications.

The 6010+ is fast, accurate and easy to read with a jumperless configuration, plug in output boards and an improved PC configurator for quick and simple setup. The new generation 6010+ further provides a new user-selectable dual color display option with fixed red or green displays or a green to red color change when an alarm condition occurs.

In addition, plug-in modules allow PV retransmission or transmitter power supply and up to 4 alarm relays (latching or non-latching).

The 6010+ indicator is affordable, full featured, easy to use and compact with performance features characteristic of the + Series product line that work for you making temperature and process display simple.

The 6010+ digital indicator like its predecessor, the 6010, remains an easy to use low cost solution for temperature and process display applications - providing excellent visibility and high accuracy all within an affordable and ultra compact housing.

#### APPLICATIONS:

The West 6010+ digital indicator like its predecessor, the 6010, remains an easy-to-use, low cost solution for indication and display within industrial temperature and process measurement applications – providing high visibility and excellent accuracy in a compact size.

#### INDUSTRIES

- Industrial and lab ovens/furnaces
- Plastics and thermal forming
- Packaging applications
- And any other display of temperature or other process measurement especially where an out-of-range alarm condition is a requirement

#### FEATURES/BENEFITS

- **NEW** 10V SSR driver output allows drive of up to 3 typical SSR/SCR inputs
- **NEW** Plug-in Output Modules for SSR driver, Triac, Relay and linear outputs – easily field changeable
- **NEW** Common HMI and styling with other West + Series products promoting uniform system appearance and operation
- **NEW** Latching Alarms - Included as standard.
- **NEW** Improved PC Configurator with easy to use “wizard” suits both novice and experienced users
- **NEW** Jumperless configuration with self-recognition of optionboards – promotes simple, error free set-up
- **NEW** Multi-point Scaling and Tare features included as standard.

**WEST™ brand****1/16 DIN Indicator with Alarm****6010+™****Affordable, High Contrast,  
Compact and Easy to Use****SPECIFICATIONS\*****STANDARD FEATURES**

4 per second input sample rate

Universal input

**NEW** Improved HMI, 3 button operation, 4 digit 10mm high red or green display, indicators for 5 alarms**NEW** Plug-in output modules – install just the function needed**NEW** Multipoint scaling & Tare functions**NEW** Jumperless input configuration**NEW** Auto-detection of installed output modules**NEW** Improved PC configuration software  
Process alarms (**NEW** standard latching alarm)

Rugged ABS Plastic housing

**ENVIRONMENTAL CHARACTERISTICS****Operating Temp:** 32° to 131°F (0° to 55°C)**Storage Temp:** -4° to 176°F (-20° to 80°C)**Humidity:** 20% to 95% non-condensing RH**ELECTRICAL****Supply Voltage:** 100-240V, 50/60Hz, Optional 20-48VAC 50/60Hz / 22-65VDC**Power Consumption:** 5W / 7.5 VA Maximum**INPUTS****T/C's:** J, T, K, L, N, B, R, S, C; Pt Rh20% vs. Pt 40% Rh**RTD:** 3-wire, PT100**DC Linear (Scalable –1999 to +9999)****Volts:** 0-5V, 1-5V, 0-10V, 2-10V**DC milliamps:** 0-20mA or 4-20mA**DC millivolts:** 0-50mV, 10-50mV**OUTPUTS**

All outputs are user-selectable and customized based on desired application; choose from the following output types

**Max # of Outputs:** 4 for alarm, 24 VDC transmitter power supply or retransmit of process value**Single Alarm Relay:** Optional SPDT; 240VAC 2A resistive; Lifetime >500,000 operations at rated voltage/current**OUTPUTS (cont'd)****Dual Alarm Relays:** Optional, Two x SPST contacts with shared common. 2 Amp resistive at 240V AC, >200,000 operations. Latching or non-latching**SSR Drive:** Optional drive capability: >10 VDC nominal into 500 ohm minimum**DC Linear:** Optional 0-20mA, 4-20mA into 500 ohm max; 0-10V, 1-5V, 2-10V, 0-5V into 500 ohm min; Outputs have 2% over/under drive applied; Accuracy  $\pm 0.25\%$  (mA into 250 ohm load, V into 2k ohm load); degrading linearity to  $\pm 0.5\%$  for increasing burden to specified limits**Triac:** Optional 0.01 to 1A AC, 20 to 280Vrms, 47-63 Hz (Limit 2)**Transmitter Power Supply:** Optional 24 VDC (Limit 1)**OUTPUT FUNCTIONS****Process Alarm:** (reverse or direct)**Alarm Modes (Alarm 1 through 5):** High/Low, Band, Deviation, logical OR/AND**Retransmit:** Process value**ELECTRICAL PERFORMANCE****Accuracy:**  $\pm 0.1\%$  of input range  $\pm 1$  LSD (T/C CJC better than 1 degree C)**Input sample rate:** 4 per second, 14 bit resolution**Impedance:** >10M ohm for the thermocouple and mV ranges, 47k ohm for V ranges and 5 ohm for mA ranges**Sensor Break Detection:** <2 seconds (except zero based DC ranges), high alarms activate for T/C, RTD and mV ranges, low alarms activate for mA or V ranges**COMMUNICATIONS INTERFACE****User-selectable:** 2-wire, RS-485 serial communications option with choice of Modbus RTU or West ASCII protocol; 1200 to 19200 baud**PC Configuration:** Offline configuration from serial port to dedicated configuration socket (comms option not required)**RATINGS/AGENCY APPROVALS****Conformance:** CE, UR, cUR UL File # 67237**Safety:** EN61010**EMC:** EN61326**PROTECTION**

IEC IP66 (NEMA 4X) front panel

IEC IP20 (behind the panel protection)

**PHYSICAL DIMENSIONS****Panel Cutout:** 1.77" x 1.77" (45mm x 45mm)**Width:** 1.89" (48mm)**Height:** 1.89" (48mm)**Depth:** 4.33" (110mm)**Weight:** 0.46 lbs (0.21 kg)**Mounting:** Plug in panel with fixing strap**OPTIONS/ACCESSORIES****Digital Input 1:** Selects volt-free or TTL input**NEW** Faster RS-485 serial communication speeds and user-selectable (Modbus/RTU or West ASCII) option**NEW** 24VDC transmitter power supply option**Choice of Led colors:** red or Green**Drive output:** 10VDC SSR**WARRANTY**

3 Years

\* Specifications are for base models with standard features only unless otherwise noted. Specifications subject to change without notice in accordance with our DBS policy of continuous improvement. All product and brand names are trademarks of their respective owners. All rights reserved.

West Brand 6010+ Data Sheet (4/05)

**WEST™ brand**

**6010+™**

**Indicators**

**1/16 DIN Indicator with Alarm**

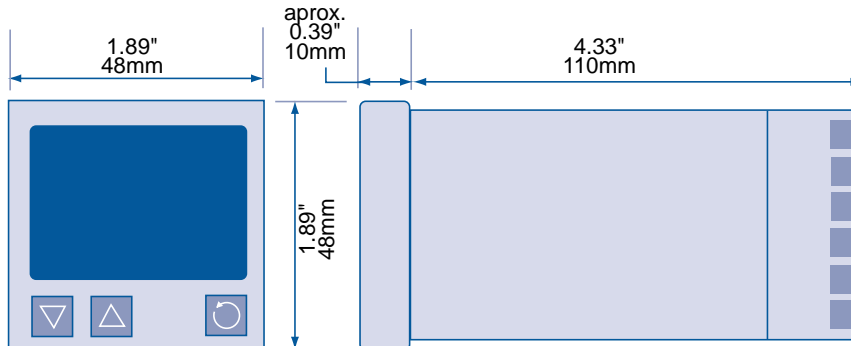
**Affordable, High Contrast,  
Compact and Easy to Use**

**MODELS**

Code 1: Model #	Code 2: Input Type	Code 3: Option Slot 1	Code 4: Option Slot 2	Code 5: Option Slot 3	Code 6: Option Slot A	Code 7: Power Supply	Code 8: Display Color
<b>P6011Z</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1/8 DIN Indicator with Alarm Function	1 3 Wire RTD or DC mV 2 Thermocouple 3 DC mA 4 DC Voltage	0 Not Fitted 1 Relay 2 DC for SSR 3 DC 0-10V 4 DC 0-20mA 5 DC 0-5V 6 DC 2-10V 7 DC 4-20mA 8 Triac*	0 Not Fitted 1 Relay 2 DC for SSR 3 DC 0-10V 4 DC 0-20mA 5 DC 0-5V 6 DC 2-10V 7 DC 4-20mA 8 Triac* 9 Dual Relay	0 Not Fitted 1 Relay 2 DC for SSR 3 DC 0-10V 4 DC 0-20mA 5 DC 0-5V 6 DC 2-10V 7 DC 4-20mA 8 Transmitter Power Supply	0 Not fitted 1 RS-485 Serial Communication 3 Digital Input	0 100-240 AC 2 24-48 AC or DC	0 Red (Fixed) 1 Green (Fixed)

\* Maximum of two Triac outputs per unit

**DIMENSIONS - 1/16 DIN**



\* Specifications are for base models with standard features only unless otherwise noted. Specifications subject to change without notice in accordance with our DBS policy of continuous improvement. All product and brand names are trademarks of their respective owners. All rights reserved.