

DISPLAY PROCESS : SX 6500 SERIES



Process conditioner,
inclinometer
Signal input selection
Indication in engineering unit
Signal linearisation
by 30 regression lines
Three levels filters
TARE key
Control function by the front
panel key and logic input
Sensor excitation
Communication, control option.



GENERAL DESCRIPTION

6500 series display characteristics:

- An input selection in voltage or current
- A «ready to install» format
- Plug/unplug terminals
- Programming lock out to prevent unauthorized or accidental modifications of the set-up parameters.

Junior display / PRCSE / process features are:

- Programmable scaling in engineering units between - 1999 and + 9999
- Built-in 24 VDC power supply for the sensor (24 VDC 30 mA)
- Optional card control: 2 thresholds by 2 relays.

Alpha PSE display / conditioner features are:

- Programmable scaling in engineering units between - 32000 and + 32000
- 30 points maximum linearisation
- Several level filters: balanced, damping and round filter
- Built-in power supply for the sensor
- Option control cards:
 - analogue (4-20 mA or 0/10 VDC)
 - 2 thresholds by 2 relays
 - 4 thresholds by 4 relays
- Optional communication cards:
 - serial RS 232
 - serial RS 485
- Control of TARE, RESET, LIMIT, MAX/MIN functions by a key on the front panel. Other functions may be validated through logical inputs.
- ARC sinus function: this function is used with inclinometers which output is proportional to the sinus of the angle of inclination. This allows to convert the measure of acceleration (g) to degree of inclination (°).

SELECTION GUIDE

Reference	Description	Options	Options cumul
6500	Display / process Junior PRCSE 230 VAC ; 50/60 Hz (3 W) Power supply	2 thresholds relay 4 thresholds relay Analogue output RS 232 output RS 285 output	Yes } Not available
6501	Display / process Junior PRC4SE 24 VDC isolated Power supply	2 thresholds relay 4 thresholds relay Analogue output RS 232 output RS 285 output	Yes } Not available
6502 <i>Sxi</i>	Process indicator Alpha PSE 230 VAC ; 50/60 Hz Power supply	2 thresholds relay 4 thresholds relay Analogue output RS 232 output RS 285 output	{ Yes choice of one Yes { Yes choice of one
6503 <i>Sxi</i>	Process indicator Alpha P1SE 10-30 VDC isolated Power supply	2 thresholds relay 4 thresholds relay Analogue output RS 232 output RS 485 output	{ Yes choice of one Yes { Yes choice of one
6508	Display / process controller Junior PRC3SE 12 VDC isolated Power supply	2 thresholds relay 4 thresholds relay Analogue output RS 232 output RS 485 output	Yes } Not available

GENERAL SPECIFICATIONS (AT 25°C)

Common characteristics

Front protection	IP 65
Operating temperature	- 10 to + 60 °C
Storage temperature	- 20 to + 85 °C
Relative humidity	< 95 % ± 40 °C
Casing material	Polycarbonate S/UL 94V-0
Altitude max	2000 m

Input process

Voltage	±10 VDC, resolution: 0.5 mV, impedance 1Mohms
Current	± 20 mA, resolution: 10 µA, impedance 15 ohms.

Junior Process (PRCSE, 6500, 6501, 6508) characteristics

Dimensions	96 x 48 x 60 mm
Weight	250 g
Max. error	± 0.1% of the reading + 3 digits
Temperature coefficient	100 ppm/°C
Warmup time	5 minutes
Resolution	16 bits
Rate	25/s
Sensor excitation	24 VDC 25 mA
Main display	4 digits 14 mm red LED, -1999/9999
Decimal point	programmable
LEDs	2 for output status
Display update time	250 ms

ALPHA Process (ALPHA-PSE, 6502, 6503) characteristics

Dimensions	96 x 48 x 120 mm
Weight	600 g
Max.error	± 0.1% of the reading + 2 digits
Sensor excitation	24 VDC 30 mA or 10 VDC 120mA or 5VDC 120mA
Temperature coefficient	100 ppm/°C
Warmup time	10 minutes
Resolution	± 16 bits
Rate	16/S
Linearisation	30 points
Main display	-32000/32000, 5 digits Rouge 14 mm red
Decimal point	programmable
LEDs	14 (programming and control)
Display update time	62 ms
Filters	
Filter P	
Cut-off frequency (-3dB)	from 4 Hz to 0.05 Hz
Slope	from 14 to 37 dB / 10
Filter E	
Programmable	10 levels
Arc Sinus function.	

INTERFACE DRAWING

Panel cut-out: 92 x 45 mm

