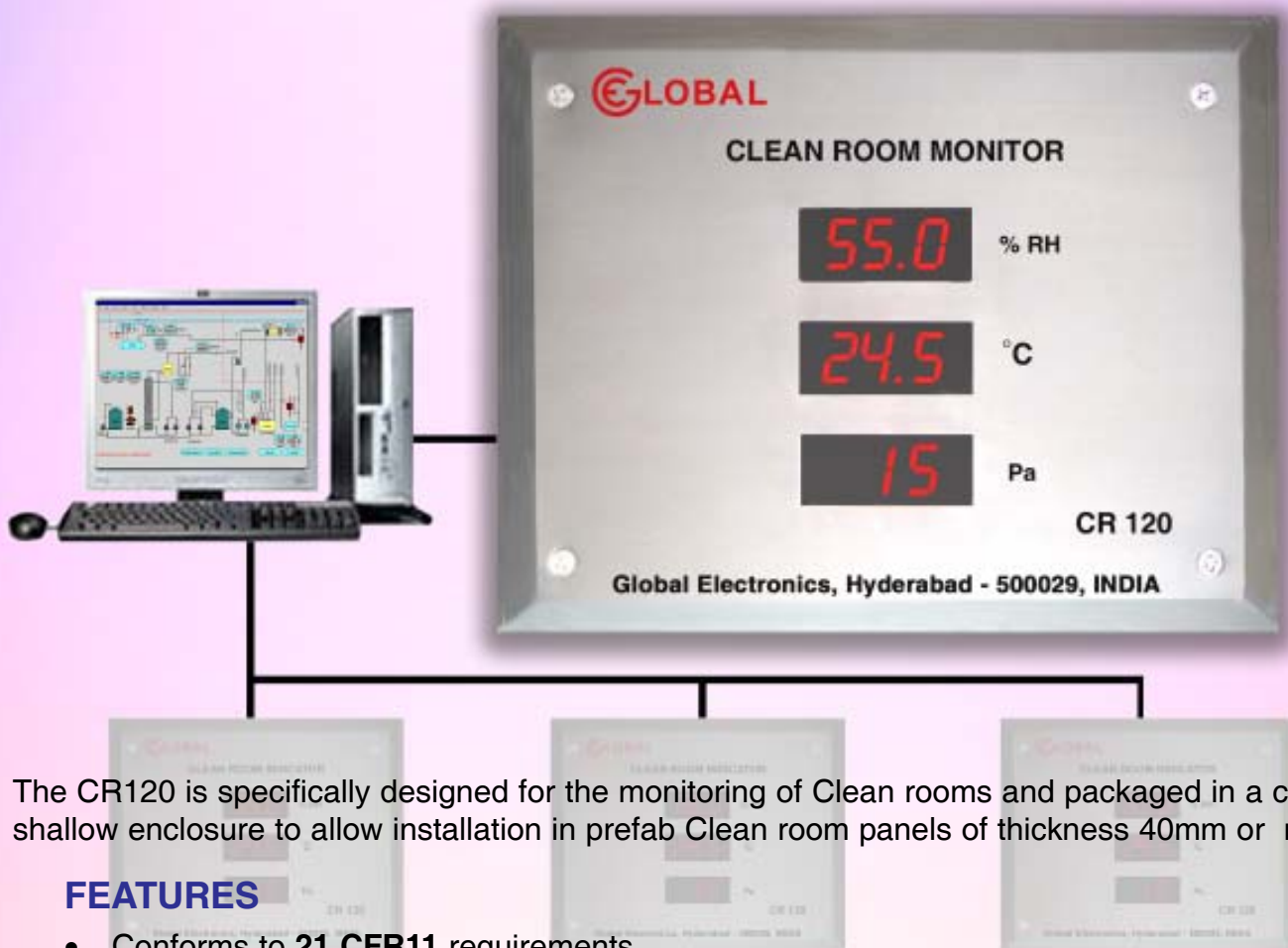


DIGITAL CLEAN ROOM MONITOR CR 120



The CR120 is specifically designed for the monitoring of Clean rooms and packaged in a compact shallow enclosure to allow installation in prefab Clean room panels of thickness 40mm or more.

FEATURES

- Conforms to **21 CFR11** requirements.
- Microprocessor based design with advanced fault tolerant system
- 3 Channel Display of RH, Temperature & Room Pressure
- Channel ranges and units can be preconfigured (Factory Configured)
- User programmable for 1,2 or 3 channel measurements
- Programmable Alarm Limits with Visual Annunciation.
- Real Time battery powered Clock
- Software calibration for all 3 channels with password protection
- Calibration record with Time and Date Stamp for Validation.
- RS 485 multi dropping communication for Host Controller / SCADA system.
- Digital Data transmission for zero error data recording
- Choice of direct RS485 Instrument Communication Protocol or Modbus Protocol.
- Compact, All Stainless Steel enclosure with 38 mm depth for installation in prefab panels.
- Incorporates highly stable built-in Pressure Sensor.

GLOBAL ELECTRONICS

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TECHNICAL SPECIFICATIONS

MODEL: CR120



Display	: 3 rows High Brightness Non fading LED
Input	: Voltage / RTD (PT100) / Pressure sensor (See Ordering Information) User selectable display for 1, 2 or 3 Channel measurement
Clock	: Real Time Clock with Battery backup.
Calibration	: Software calibration for each channel
Calibration data	: Stored in Non Volatile memory with calibration date & time stamp
Communication	: RS 485 Modbus Protocol (RTU)
Power	: 24 V DC \pm 5%, 5 VA (max)
Environment	: Temperature: 0°C to 60°C; Humidity: 0 to 80% (Non Condensing)
Enclosure	: Stainless Steel , 30 mm deep Panel Cutout: 175x155 mm
Dimensions	: Cabinet: 173x153x30 mm; Cover: 200x180 mm

“mmWC” or “Pa” marking on the faceplate for Pressure to be specified at the time of Ordering

SENSOR, RANGE & ACCURACY:

Parameter	Sensor	Range	Resolution	Accuracy *
Humidity	Hygroclip CP	0 to 100% RH	0.1% RH	\pm 2.0% \pm 1 digit
Temperature	Hygroclip CP	-40 to + 60°C	0.1 °C	\pm 0.3°C \pm 1 digit
	RTD PT100	-40 to + 60°C	0.1 °C	\pm 0.3°C \pm 1 digit
Differential Pressure	Built in	-10 to 90 mm WC	0.1 mm WC	\pm 0.5% \pm 1 digit
		-100 to 900 Pa	1 Pa	\pm 0.5% \pm 1 digit

Note \Rightarrow * @ 25°C \pm 3°C; RH: 10 to 90 % RH (Non-Condensing)

ORDERING INFORMATION §

Model	Channel 1		Channel 2		Channel 3	
	Parameter	Sensor	Parameter	Sensor	Parameter	Sensor
CR120-0	Humidity	Hygroclip	Temperature	Hygroclip	Pressure	Built in
CR120-1	Humidity	Hygroclip	Temperature	Hygroclip	None	None
CR120-2	None	None	Temperature	PT100	Pressure	Built in
CR120-3	None	None	None	None	Pressure	Built in
CR120-4	None	None	Temperature	PT100	None	None

§ RH & Temperature Sensors are not part of the instrument and are to be ordered separately

SENSORS & ACCESSORIES:

ORDER CODE	DESCRIPTION
HYGROCLIP	RH & Temperature Sensor: Rotronics Hygroclip CP with 0.75 m cable
CR120 RTD	Temperature Sensor: RTD PT100 in SS sheath with 1 m PTFE cable, M6 mounting threads
CR120 BW	Brick Wall Enclosure: Plated MS enclosure designed to fit CR120 in Brick wall. Dimension: 185 (W) x 165 (H) x 55 (D) mm
CR 120 SC	Mounting Bracket for Hygroclip : On instrument faceplate.
CR120 PN	Pressure Tubing adaptor for mounting on instrument faceplate
CR120 ST	Silicon Rubber Tubing: 3.5 ID X 5.5 OD Red tubing for pressure
SMPS	24VDC Output Power Supply in powder coated wall mount enclosure. Current rating depends upon the total number of units connected.

Specification and data subject to change without prior notice

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