

## 6" CR2010<sup>Pro</sup> series

The 6" chart plate recorder is part of G-Tek's most popular series CR2010 offers utmost reliability and versatility at an affordable price. The pressure pen eliminates concerns about ink depletion or pen replacement. Pressure-sensitive papers are used instead of thermal papers to ensure that the marking is retained for a longer period. These Chart Plate recorders are widely used in low temperature equipment, blood banks, incubators and any more places. It takes direct inputs from RTD Pt-100. Standard chart speed available are 1 day/ 7 days/ 31days per revolution. These recorders are microcontroller based. Crystal controlled chart drive ensures accurate chart speed. Stepper motors for both pen and chart drive, ensures no lag and no backlash. With a cutout of 191 x 163 mm and smallest depth, makes it very convenient to use. They come with universal power supply as a standard feature. A clamp is also available that holds panels securely allowing for easy installation and removal, of the panels.

### Features:

- 6" Chart Width
- Inkless Chart Recorder
- Pressure Sensitive Paper for long retention of data
- Single Analog Input channel
- Direct Input Standard Pt-100 sensors
- Universal Power Supply 85-264 V AC, 47-63 Hz
- Battery Backup of more than 7 day\*
- Available chart speed of 1D, 7D, 31D / Rev
- Fitting Clamp (Optional)

\* Battery life is calculated assuming process parameter does not vary more than 0.15 Deg/Min and recorder is not turned OFF or ON And the sensor input is not alarming condition. (Battery life depends on number of times recorder on/off and sensor input Variation and alarm condition.)

### Specifications:

#### Pens

No. of Pens	1
Pen marking	Continuous
Pen Response Time	< 10 Sec. (Full Scale)
Pen Resolution	Stepper Motor Controlled better than 0.1% FSD
Overshoot	None

#### Chart:

Chart Speed	In day mode — 1 day/ 7 days/ 31days per revolution
User setting	User programmable
Chart Calibrated Radius/ Size	2.3" (calibrated radius approx. 59 mm) / Circular, 5.51" (140 mm)
Chart Ranges	Refer Table 2

#### Display, Operator Panels and Input:

Display Type	None
Status Indicators	ALM LED – Red LED blinking indicates Alarm high/low condition  BAT LED - Green LED blinking indicates Normal Operation Red LED blinking indicates Battery Low status Yellow LED blinking indicates Error condition
Panel Keys	Front panel Keyboard consisting of three keys for configuration and calibration
Analog Input (Sensor)	RTD (PT-100)
Chart Parameter Configuration	Menu for selection of chart Range, Speed, Alarm Enable/Disable options Refer operating manual for details.
Sensor Type and Range	Refer to Table 1
Scan Rate	Mains + Battery: Continuous 1 reading per 2 seconds for 1 Day, 7 Days and 31 Days chart speed

#### Protection :

Input Impedance RTD	> 20 MΩ
CMRR	> 115 dB @ 50, 60 Hz at 20 sample per second
NMRR	> 88 dB @ 50, 60 Hz at 20 sample per second
Maximum Common Mode Voltage	5V AC
Isolation Channel-EARTH	NA
Input Protection	30V AC/DC Max



#### Environmental:

Temperature	(Operation) +5° C to +45° C (Limiting) 0° C to +50° C. (Storage) -20° C to +60° C
Humidity	(Operation) 10 to 80 % RH Non-Condensing (Storage) 5 to 90 % RH Non-Condensing
Altitude	<2000 metre

#### Power Requirement:

Mains Supply + Battery	Power Supply: 85 to 264 VAC ,47-63 Hz. Battery : 2x1.5 VDC Ultimate Lithium Non rechargeable battery 3500 mAh
Power Rating	3 V, 300 mA (Max) ; 1 W Max with maximum configuration
Fuse Type	None

#### Battery Backup:

Battery Reverse Polarity	Protected
Battery backup	> 7 days*

#### Standards:

EMI-EMC	IEC 61000-6-2/6-3
Safety	IEC 61010-1
Pollution Degree	II
Installation Category	II
Vibration	2g Peak (10Hz-150Hz)
Shock	IEC 61010-1

#### Physical Characteristics:

Overall Dimensions Max	191 x 163 x 66 mm
L x W x D (mm)	
Weight	Approx. 1 kg (with Sensor and battery)
Mounting	Panel Mount

## 6" Open Frame Circular Chart Recorder For OEM's

• Your Ordering Code : mail to [sales@gtek-india.com](mailto:sales@gtek-india.com)

Table 1 - Sensor Type and Range

Sensor Type	Valid Input Range	Resolution Chart	Accuracy	Linearization Error
Pt-100 (RTD) <sup>†</sup>	-200 to 850 °C	1 %	± 0.5 % FSD	± 0.06 °C Max

#  $\alpha = 0.00385$

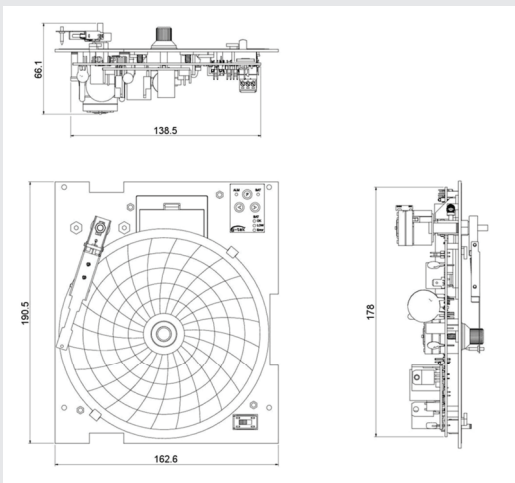
Table 2 - Available Chart(s) and their ranges

Chart Type (XX)	Range***	Part Description
41	0 to + 50 (PS)	W6 0 +50 PS
42	+30 to -40 (PS)	W6 +30 -40 PS
43	-40 to +25 (PS)	W6 -40 +25 PS
44	-115 to +50 (PS)	W6 -115 +50 PS
45	-200 to 0 (PS)	W6 -200 0 PS
46	0 to +60 (PS)	W6 0 +60 PS
Others, Please Specify		

\*\*\* First value in the chart range is at the center of the chart.

# PS: Pressure Sensitive Chart

### Overall Dimension:



### Overall Dimension:

Dimension (L x W x D) mm      191 x 163 x 66 mm

\*Actual specification may vary depending on the optional features installed.

\*\*Refer to the front panel of recorder for exact rating.

Select your ORDER Code:      -

Example ORDER Code:      -

Code :  
 0 : With Fitting Clamp  
 5 : W/O Fitting Clamp

Code : Chart Type  
 XX : Refer Table for chart type

Code : Range  
 0 : Programmable  
 1 : Fixed, Please specify

Code : Chart Speed  
 0 : Programmable (24h, 1D, 7D)  
 3 : 24 hours/Rev  
 4 : 7 Days /Rev  
 6 : 31 Days /Rev  
 9 : Other

Code : Sensor Type  
 1 : RTD (PT-100, DIN 43760,  $\alpha = 0.00385$ )

Dealer / Representative



Manufacturers of :

- Circular Chart Recorders
- Inkless Recorders
- Paperless Recorders
- Scanners & Data Loggers
- Networked Data Loggers
- Application Software
- Web based DAQ
- Vaccine Series Data Loggers

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