

6" Inkless Recorder

Series CR-2010

Inkless chart recorders from G-Tek is available in 4" and 6" chart size formats. Part of G-Tek's most popular series CR2010, they offer utmost reliability and versatility at an affordable price. Since the marking on the chart is through the pressurized needle, there is no need to worry about ink being exhausted or replacing the pen. Pressure sensitive papers are used instead of thermal papers to ensure that the marking is retained for longer period of time. These 6" recorders are widely used in low temperature equipment, blood banks, incubators and many more places. They come for RTD Pt-100 inputs, 4-20mA/ 0-1v process inputs. Standard chart speeds are 4Hr / 24Hr and 168Hr (7Day) per revolution. These recorders are microcontroller based. Crystal controlled chart drive ensures the good chart speed accuracy. Stepper motors for both pen and chart drive, ensures no lag and no backlash. Transparent polycarbonate door makes the chart visible from distance. They come with universal power supply as a standard feature. Other power supply inputs are also available.

Features :

- 6" Chart Width
- Inkless Chart Recorder
- Pressure Sensitive paper for long retention of data
- Field Programmable
- Without Display
- Single Analog Input channel
- Universal Power Supply 85-264 V AC, 43-65 Hz
- Other power supply inputs on request
- Battery Back up
- Direct Input standard PT-100 sensor
- Process Input through 4-20mA or 0-20mA or 0-1V DC
- 7Days/Rev Chart Speed
- Other Chart Speed available on request

Specifications :

Pans :

No. of Pens	1; Pressurized needle
Pen Marking	Continuous
Pen Response Time	<5Sec (Full Scale)
Pen Resolution	Stepper Motor Controlled better than 0.1% FSD
Overshoot	None

Chart :

Chart Speed	7 days/rev; 24Hr/Rev and 4H/Rev
Chart Calibrated Radius	2.3" (approx. 59mm)
Chart Ranges	Standard (Refer Table 2) / Customized Please specify

Display, Operator Panels and Input :

Display Type	None
Status Indicator	None
Panel Keys	Front panel KB consisting of 2 keys for programming and calibration
Analog Input	RTD Pt-100 / 0-1 V / 4-20 mA / 0-20 mA (External shunt resistance of 50 Ohm 0.1%)
Sensor Type and Range	Refer to Table 1
Scan Rate	Continuous 1 reading per second

Protection :

Input Impedance RTD/Volt	> 20 MΩ
Input Impedance mA	50Ω Shunt External
CMRR	>100 dB@ 50, 60 Hz at 3 Sample per Second
NMRR	>50 dB@ 50, 60 Hz at 3 Samples per Second
Maximum Common Mode Voltage	5V AC
Isolation Channel – EARTH	1.5KV, 1 Minute
Isolation Channel - Channel	NA
Input Protection	30V AC/DC max
Termination	Non interchangeable, Removable Plugs
Transmitter Power Supply	Non Isolated 15V DC; 30mA max, unprotected

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 meter



Power Requirement:

Supply Voltage	85-264 V AC 47-63Hz
(Mains Operated)	
Battery backup	Yes
DC Adapter Operated	Yes
Power	7W Max With Maximum Configuration
Fuse Type	None

Battery Backup :

Battery	12 V 7Ah External Lead Acid battery
Battery Charger	Yes
Battery Reverse Polarity	Protected
Minimum Back up	24 Hrs.

Safety :

Safety	IEC 61010-1
EMI-EMC	EN 61326-1 Class A
Pollution Degree	II
Installation Category	IV
Vibration	2g Peak (10 Hz-150Hz)
Shock	IEC61010-1
IP Rating	IP50 (Door and Bezel only)

Table 1 Sensor Type, Range, Accuracy, and Max Error Specification

Input Type	Valid Input Range	Resolution Chart	Accuracy (FSD)	Linearization Error (Max)
PT-100(RTD) [#]	-100 to 600°C	2%	± 0.5%	± 0.7°C
mA	4-20mA	2%	± 0.5%	± 0.1%
mA	0-20mA	2%	± 0.5%	± 0.1%
mV	0-1 Volt	2%	± 0.5%	± 0.1%

6" Inkless Recorder

• Your Ordering Code : mail to sales@gtek-india.com

Select your ORDER Code:

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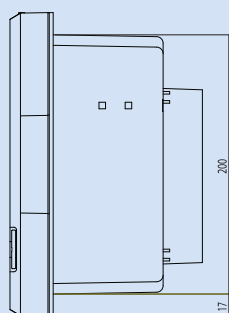
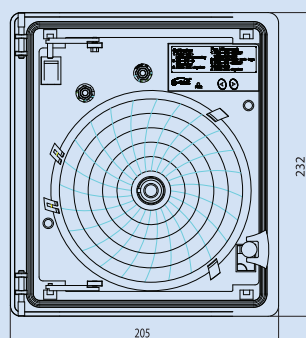
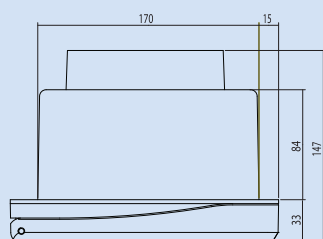
Example ORDER Code:

2	5	0	0	0	-	3	6	0	0	0
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Table 2 Standard Available Chart Ranges

Chart Type XX	Range**	Speed	Part Number	Part Description
36	+20 to -10	7days/rev	308009	W6+20-10 PS #
37	+50 to -100	7days/rev	308010	W650-100 PS #
38	-50 to +50	7days/rev	200595	W6-50+50 PS #
39	+40 to -10	7days/rev	308008	W640-10 PS #
50	Other Please specify			

** First range is at the center of the chart # PS: Pressure Sensitive Chart Paper



Overall Dimension : (approx) :

Dimension L x W x D (mm)	232 x 205 x 117
Panel Cutout (mm) (L x W)	200 x 170
Bezel (mm)	232 x 205

Code : Recorder Type

2 : CR6 NU

Code : Pen Type

5 : 1Pen No Display with PS*

*Pressure Sensitive Pen

Code : Power Supply

0 : 85-264 V AC, 47-63 Hz

1 : 12-15V DC 1Amp

4 : 85-264VAC, 47-63 Hz with BB*

5 : 85-264V AC, 47-63 Hz With TS**

7 : 85-264VAC , 47-63 Hz BB* and TS**

8 : 24V DC 1Amp

*BB=Battery Backup,

**TS=Transmitter Supply, 13-17V DC @ 30mA (max)

Code : Relay

0 : None

Code : PC Interface

0 : None

Code : Chart Type

XX : Refer Table 2

Code : Range

0 : Programmable

1 : Fixed, Same as chart type

Code : Chart Speed

3 : 24 Hr/Rev

4 : 7 days/Rev

9 : Other, Please specify

Code : Sensor Type

0 : Universal

1 : RTD Pt 100 DIN 43760; $\alpha=0.00385$

2 : 4 - 20 mA

3 : 0 - 20 mA

4 : 0 - 1 Volt DC

Dealer / Representative

The specifications given above are an overview, and may be or may not be available in all product variants, or at an additional cost. The company reserves the right to change the specifications without prior notice, as the company follows a continual improvement philosophy for its products.



Manufacturers of :

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

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