SC-5x PRO Datalogger

Series SC5x PRO Scanner / Data logger

The PRO series of SC5x multichannel datalogger has enhanced memory, faster scan speeds, more no of channels, more sensor types, and Ethernet connectivity. The internal SD card has 16GB (expandable to 32GB) of storage capacity. The Monochrome LCD display allows user to continuously monitor the current data values with good readability and settings of configurations. Though only 6 keys are used, new user friendly and intuitive menu sequence makes it very easy to configure the scanner and get going quickly. It also has a USB host connectivity and data is automatically downloaded from internal SD card to memory device. There are host of optional features to choose from to suit your budget and needs. When used over TCP/IP, it can easily form a part of the large networked data loggers. It also supports gtekNet™ web based software.

Features:

- Universal Input
- Number of Channels: 8, 16, 24, 32
- Scanning Speed: All Channel in 15 Seconds
- User settable resolution up to 0.0001
- 21CFR Part 11 compliance
- Built-in SD Card (Optional) Storage 16GB.
- · USB Host Interface
- If flash drive is connected then the data is downloaded automatically
- Ethernet connectivity
- Device Configuration from Desktop Application: gtekNet[™]
- MODBUS TCPIP Compliant
- Dot Matrix printer interface
- The store interval is possible from 1 second up to 18 hours
- $\bullet\,\,$ The Printing interval is possible from 1 minute up to 18 hours
- Individual High low alarm setting
- 1 Relay Output
- Transmitter Power Supply

Specifications:

Display and Operator Panels:

Display Type 4x20 Characters backlit LCD display white over blue

Status Indicator Various LED indication for Data Storage, Device health, SD

Card mount status, USB pen drive mount status and Alarm

status Indication for each channel

Panel Keys Front panel KB consisting of 6 keys for programming and

configuration setting.

Real Time Clock (RTC) Scrolling of RTC along with other data; user can also fix one

line to continuously Display RTC.

Event Notifications Different events are notified on display Display Blinking on Alarm high / low Condition

Error Code Various faults are indicated using Error Code on Display
Display Action Display Rolling and Freeze (Does not Display skipped channel)

Sensor Connectivity Sensor Failure Indication on Display (Open or Short)

Analog Input Details

No of Inputs 8/16/24/32 Channels Max. Sensor Input Type; Range and Accuracy Types J, K, R, S, T

RTD PT-100; DIN43760, α =0.00385 Vdc 0-1V; \pm 1V; 0-5V; \pm 5V mA 4-20mA; 0-20mA

(External Shunt Resistance of 50 Ω 0.1%)

Accuracy \pm 0.25% FSD \pm 1 digit

Linearization Polynomial Based Software Linearization

Resolution 0.

CJC Error ±0.9°C for 0-50°C Sensor Type and Range Refer Table 1

Data Scan Rate Maximum 15 Seconds for all Channels

Protection:

Input Impedance RTD/TC /Volt $\,> 20~\text{M}\Omega$

Input Impedance mA 50 Ω \pm 0.1%, Shunt External

CMRR >=110 dB@ 50, 60 Hz at 50 Sample per Second NMRR >= 80 dB@ 50, 60 Hz at 50 Samples per Second

Max. Common Mode Voltage
Isolation Channel – EARTH
Input Protection

SV AC
2.5KV, 1 Minute
30V AC/DC Max

Batch Storage / Data Memory Details:

Start / Stop Key Press / Remote Start - Stop

Store Interval 1 Second to 18 Hrs

Memory Size 16GB Standard / Expandable to 32GB / Stop on Full





General:

Termination Non Interchangeable, Removable Plugs,

Individual For Each Input

Max No of Input Cards Per Device 4 (8 channels each)

Password Protection Optional

Device RTC set Set Device RTC from application (So that PC and Device RTC

are in sync while starting the batch)

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 85-264VAC 47-63Hz

Power 15W Max with Maximum Configuration

Transmitter Power Supply:

No of outputs available

Voltage 12-15V DC
Max Load current 30mA
Short circuit protection Yes
Isolation None

Communication:

PC Interface Ethernet TCP/IP

Ethernet 10 /100 Base T (IEEE 802.3)

Connector RJ45

Protocols Supported MODBUS TCP/IP; HTTP; FTP

Communication Activity LED Yes Isolation (Terminal – GND) 1KV, 1minute Printer Interface Centronics Port

USB Host If flash drive is connected then the data is downloaded

automatically

Relay Output Details:

Max. no. of Relay

Max. no. of relay group 8 (any channel/set-point can be assigned to any group)

Output Type 1 Form

Alarm Set-point High/Low individually settable for each channel Life Expectancy Mechanical: 10^7 operations

Electrical: 10^5 operations
Relay Contact 1A 230VAC resistive

Relay Refresh Rate 5 Sec
Isolation Relay contact — GND 1.5KV 1 Minute

Safety:

Safety/EMI-EMC IEC 61010-1/ EN 61326 Class B

Pollution Degree II Installation Category III

 Vibration
 2g Peak (10Hz-150Hz)

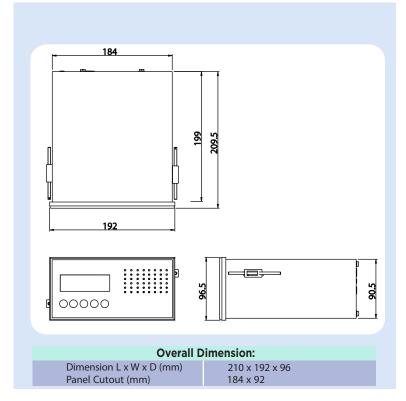
 Shock
 IEC 61010-1

 IP Rating
 IP20

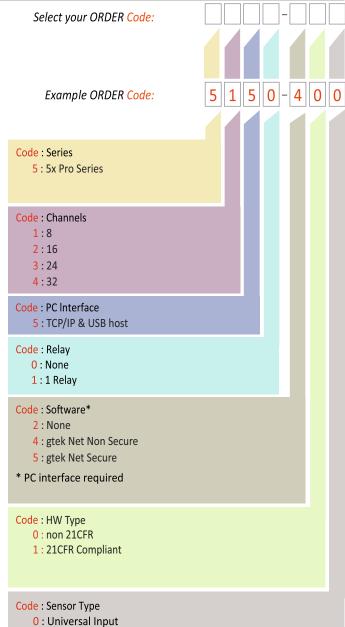
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Table1: Accuracy and Range Table for various sensor inputs

Sensor Accuracy at 25 °C						
Sensor Type	Standard	Range	Error	Error% Input	Error% Range	Error Temperature Coefficient ppm/°C
RTD Type						
Pt 100	IEC751	-200 To +850	±0.01°C	±0.04%	±0.04%	30ppm
Т/С Туре						
В	IEC584.1	+200 To +1800	±0.03°C	±0.05%	±0.06%	25ppm
С	Hoskins	0 To +2300	±0.12 °C	±0.05%	±0.06%	25ppm
Е	IEC584.1	-100 To +1000	±0.03°C	±0.05%	±0.06%	25ppm
J	IEC584.1	-200 TO +1200	±0.02°C	±0.05%	±0.06%	25ppm
K	IEC584.1	-200 To +1372	±0.04°C	±0.05%	±0.06%	25ppm
N	IEC584.1	-200 To +1300	±0.04°C	±0.05%	±0.06%	25ppm
R	IEC584.1	0 To +1750	±0.04°C	±0.05%	±0.06%	25ppm
S	IEC584.1	100 To +1750	±0.04°C	±0.05%	±0.06%	25ppm
Т	IEC584.1	-100 To +400	±0.02°C	±0.05%	±0.06%	25ppm
Volt						
0 – 1 Volt	-	±9999	-	±0.03%	±0.03%	25ppm
±1 Volt	-	±9999	-	±0.03%	±0.03%	25ppm
0 – 5 Volt	-	±9999	-	±0.03%	±0.03%	25ppm
±5 Volt	-	±9999	-	±0.03%	±0.03%	25ppm
mA – DC (External Shunt 50 Ω 0.1%)						
4-20mA	-	±9999	±0.1%	±0.03%	±0.03%	25ppm
0-20mA	-	±9999	±0.1%	±0.03%	±0.03%	25ppm



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









Dealer / Representative

Inkless Recorders

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 $improvement\ philosophy\ for\ its\ products.$

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