LmNet Pro — G-Tek's Networked Data Loggers

G-Tek's new-networked data loggers are a latest addition in its range. These data loggers are Ethernet connected for easily connecting and forming a wide network. They are Easy to Use, Accurate and Affordable solutions to monitor and record upto 4 channels of any process parameter. The display is big 0.8" LED that makes it visible from a distance. The data logger has an optional feature of alarm output. The data logged can be stored in the internal memory and can be transferred to the **gtekNet™** application. Since it is Ethernet based, it is very easy to make it a part of your network either wired or wireless. Being connected on Ethernet, you can easily add the device without either installing the application or disturbing the earlier installations. Since **gtekNet™** is a client-server application, it is easy to access data from anywhere using any standard web browser. These data loggers are ideal for all applications where maintaining proper environmental conditions are paramount and statutory.

Key Features :

- Logging Interval is user programmable from 1 sec to 18 hours
- Ultra bright large LED display
- Freeze display on any channel
- Large Memory 32000 Data Records
- Universal Sensor input
- Ethernet interface
- Alarm relay / LED output
- 15 - 30 V DC Operated

Specifications:

Display and Operator Panels:

Display Type	8 digit ultra-bright LED Numeric/ semi alphabetic; Scrolling/Freeze
Display LED Color	Red
Display Height	0.8" High
Status Indicator	Channel number and corresponding parameter values, prompts and messages displayed for ease of setup and programming.
Panel Keys	Front panel KB consisting of 5 keys for programming and configuration setting

Analog Input Details:

No of Inputs	4
Sensor Details	Refer to the Table1
Linearization Error	±0.3˚C Max
Resolution	User Settable Up to 0.0001
CJC Accuracy	±0.5˚C At 25˚C
Step Response	<1 sec (10-90%)
Scan Rate	Each Channel Scanned Every 0.5 Sec

Protection :

Input Impedance	
RTD/TC / Volt Input	> 20 M Ohm
mA Input	50Ω Shunt External
CMRR	>120 dB@ 50, 60 Hz at 13 Samples per Second
NMRR	> 60 dB@ 50, 60 Hz at 13 Samples per Second
Maximum Common Mode Voltage	60V AC
Isolation Channel – GND	1.5 KV 1 Minute
Input Protection	30 V AC/DC Max

Batch Storage/ Data Memory Details:

Start/Stop	Key Press / Remote Start
Store Interval	0 To 240 min in Step Of 1 Sec
Memory Setting	Roll Over / Stop On Full User Selectable
Memory Size	32000 Data Sets

Relay Output:

Contact Rating	1A; 230V resistive
Contact	Potential Free; 1 Form C (NO / NC)
Alarm Type	Common to all channels

General:

Termination	Non Interchangeable , Removable Plugs,
Data Storage	Non Volatile Flash Memory for Parameter and data Storage

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	15-30V DC,1A (DC Adapter Operated)
Power	15W Max With Maximum Configuration
Fuse Type	None

Communication :

Ethernet	10 /100 Base T (IEEE 802.3)
Connector	RJ45
Communication Protocols Supported	MODBUS TCP/IP; HTTP; DHCP
Activity LED	Yes
Isolation (Terminal – GND)	1.5KV, 1minute

Safety :

EMI-EMC	IEC 61326-1 Class B
Safety	IEC 61010-1
Pollution Degree	II
Installation Category	III
Vibration	2g Peak (10 Hz-150Hz)
Shock	IEC61010-1
IP Rating	IP20

Table 1 Sensor Type, Range, Accuracy, Temp. And Max Error Specifications

Sensor Type	Standard	Range	Error	Error % Input	Error % Range	Error Temperature Cofficient ppm/ °C
RTD Type Pt 100	IEC 751	-200 To + 850	0.01˚C	0.04%	0.04%	30 ppm
T/C Type						
B	IEC 584.1	+200 To + 1800	0.03˚C	0.05%	0.06%	25 ppm
C	Hoskins	0 To + 2300	0.12˚C	0.05%	0.06%	25 ppm
E	IEC 584.1	-100 To +1000	0.03˚C	0.05%	0.06%	25 ppm
J	IEC 584.1	-200 To +1200	0.02˚C	0.05%	0.06%	25 ppm
K	IEC 584.1	-200 To +1372	0.04˚C	0.05%	0.06%	25 ppm
N	IEC 584.1	-200 To +1300	0.04˚C	0.05%	0.06%	25 ppm
R	IEC 584.1	0 To +1750	0.04˚C	0.05%	0.06%	25 ppm
S	IEC 584.1	100 To +1750	0.04˚C	0.05%	0.06%	25 ppm
T	IEC 584.1	-10 To +400	0.02˚C	0.05%	0.06%	25 ppm
Volt						
-1 To 1 Volt		± 99999		0.03%	0.03%	25 ppm
0 To 1 Volt		± 99999		0.03%	0.03%	25 ppm
-5 To 5 Volt		± 99999		0.03%	0.03%	25 ppm
0 To 5 Volt		± 99999		0.03%	0.03%	25 ppm
mA						
4 - 20mA		± 99999		0.03%	0.03%	25 ppm
0 - 20mA		± 99999		0.03%	0.03%	25 ppm

g-tekNet™ WebView

To view the data of LMNet in computer, we recommend g-tekNet software.

g-tekNet™ software is a client-server application running under WindowsTM environment.

This software is an enterprise wide solution for monitoring of multiple devices connected on Ethernet (TCP/IP).
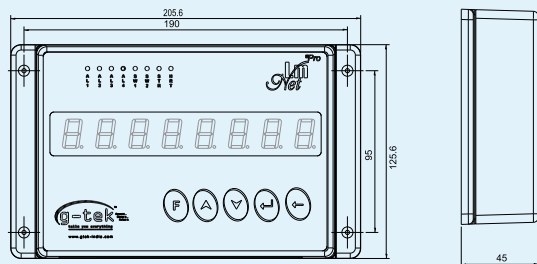
You can log the data, modify the configuration or download the data from LMNet using this software.

User can view these data from any computer on Intranet having any standard browser.

For more details, please refer to the detailed catalogue of gtekNet.

Your ORDER Code: 6 1 4 – 0 0

Code : Series
   6 : LM Net

Code : Relay Output
   1 : 1 Output

Code : PC Interface
   4 : TCP / IP

Code : Memory Size
   0 : 32000 Data Set

Code : Sensor Type
   0 : Universal

Overall Dimension :

Dimension L x W x D (mm) approx :   206 x 126 x 45

CE

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001-ISO 14001

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better by performance

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

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