KL-3360

Time and Frequency Monitor

Datasheet V 3.2

KL-3360
Time and Frequency MonitorFront View

Key Features

- Monitors and compares Time- and Frequency-Systems
- Controls up to eight Frequency Signals - opt. up to 16 - from 4 to 40 MHz and up to eight 1pps Input
- Programmable via PC: Grafical User Interface „DATAMON“
- Alarm settings individually programmable for every channel
- Optical Alarm Message
- Alarm messages via SNMP-trap

Description

The KL-3360 Time and Frequency Monitor is designed to monitor and compare Time- and Frequency-Systems.

The Systems consists of a 19“ rackmount chassis, as you can see it in the picture above, and a PC that handles the recording and the analysis of the data. The KL-3360 Time and Frequency Monitor can process up to eight frequency inputs (optionally extended to 16) from 4 to 40 MHz and up to eight 1pps input signals. An additional input is used for the frequency reference signal. An RS-232 interface connects the 19“ unit to the PC, where the software „DATAMON“ displays the input channels and allows e.g. the programming of individual alarm-settings for every channel.

That enables the monitoring of Time- and Frequency-Systems with different frequency outputs and quality. When the preset limits of permissible errors are exceeded the software releases an alarm, which is visible on the Computer Display and can be distributed via SNMP-trap and email.

All data are stored on the PC and can be play-backed in different speeds in the „DataMon“ Software or analyzed in spreadsheets.

The KL-3360 Time and Frequency Monitor offers:

- the actual status of all monitored systems
- Alarm messages: Optical, via email (without authentification) and SNMP-trap
- the opportunity of a laboratory comparison of Time and Frequency Systems
- retrospective analysis of time- and frequency anomalies through stored data

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KL-3360 Time and Frequency Monitor

Specifications:

Ext. PC:

commercial PC with min.
80 GB Harddisk capacity
256 MB RAM,
min. 2 MHz processor
Ethernet
RS-232 Interface or USB

Operating System:
Windows 7

Software:

Grafical User Interface „DATAMON"

Inputs:

Reference frequency:
external 10 MHz square wave

Frequency Inputs (4, 8 or 16):
8x 4 - 40 MHz square or sinewave
8x 1pps (thereof 1x reference)

optionally: up to 16 frequency inputs

Resolution: 1 pps 100ps,
frequency 1/1000 of a period

Accuracy: Frequency 100 ps,
1 pps 300 ps

Outputs:

RS-232 Interface
RS-232/Ethernet/USB to the external PC
Alarm: individually programmable for each channel
- optical alarm displayed
- alarm message via SNMP-trap and email to a programmable receiver

Electrical

Input power	100 – 240 VAC 50 – 60 Hz
Fuse:	2,5A T
Connector:	IDC
Optional:	redundant power supply

Environmental

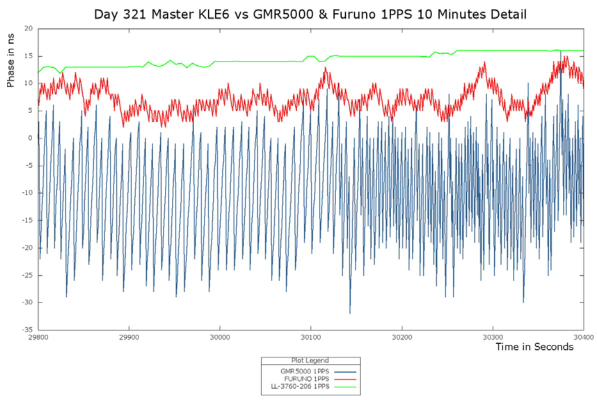
Temperature	0°C to + 55°C (operating) -20°C to + 70°C (storage)
Humidity:	up to 95% relative (non condensing)

Chassis

3HU, 19" rack-mount unit cabinet in reference to DIN41494-5 / IEC297-3.

Dimension:	433,0 mm x 132,5 mm x 400,0 mm (W x H x D)
front width	483,0 mm ± 0,5 mm with mounting brackets

(Switches/security glass/connectors are included)



The chart shows the comparison of different GPS Timing-Receivers. A period of 10 Minutes was taken from the stored txt. file and charted in Microsoft Excel.

raw-log-file:
contains all measured values of frequency- and 1pps inputs recorded at the same time. This file can be play-backed in the DataMon software in different speeds.

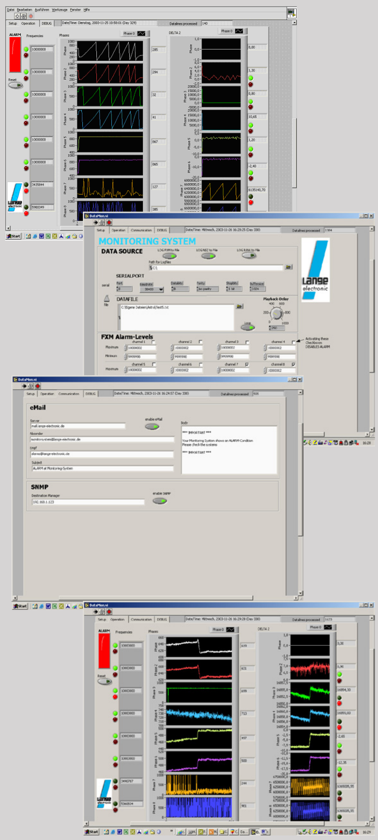
txt-file:
contains frequency or 1pps data. This file can be analyzed via spreadsheets.

The external 10 MHz reference signal, which is necessary for the comparison of the frequencies and the 1pps signals, is not part of the basic system. We would be pleased to offer frequency standards that fit to your individual needs.

GUI "DATAMON":

The Grafical User Interface „DATAMON" is a Lange-Electronic GmbH development.

„DATAMON" displays the actual status of every channel and signals alarm conditions. All necessary adjustments, like the setting of alarm limits for every single channel, the location of the stored data, the destination address of alarm messages via email or SNMP or the reset of an alarm condition are made via „DATAMON". The PC or Laptop required for the system will be delivered preinstalled on demand.



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