Flight Parameter Logger

Overview

Flight parameter logger is intended for parameters measurement and logging from different types of sensors. The system based on five cRIO-9068 real-time controller by National Instruments. The measured data from the sensors are transferred to the host computer through Ethernet channel. For this purpose a special protocol has been developed. The communication among 5 controllers realized by using an industrial unmanaged switch.

Features

- 1. Checking connectivity with following sensors:
- Thermocouple
- Strain gage sensor
- Thermal resistor





Ethernet

- 2. Possibility of sampling rate configuration for each module.
- 3. Configuration of types of the connected strain gauges.
- 4. Measurements range configuration for voltage input.

Channels Specification

Input/Output Type	Channel Quantity	Range, Sensors Type
Voltage	128	±0,2 V/±1 V/±5 V/±10 V
Voltage	8	±60 V
Voltage, isolated	4	±500 mV
Thermocouple	64	J,K,T,E,N,B,R S type
RTD	8	PT100 type
Strain gage	64	Half of sensor, full of sensor, quarter of sensor
Current input	32	±20 mA
Frequency	8	±40 B, 50 kHz
Sine-cosine transformer	5	±1°
Digital output	8	24 B, 1A, 1 MHz
Digital input	8	up to 60 V, 4 kHz

2 3 Hakob Hakobyan Street, Yerevan, 0033, Republic of Armenia

(L) +374 93 54 02 70

mww.nairi-tech.com

info@nairi-tech.com

