

General

The data acquisition system NATUN1 is a modern electronic device, controlled by a microprocessor, suited for all environments or applications, where reliability and great endurance are needed.

The data logger NATUN1 through a single RS232 line can be connected up to 64 NATUN units. The serial port can be connected also to a modem, in order to allow setting and data transfer from distance. The NATUN1 is equipped with a keyboard and a back lighted LCD display allowing the user to set and to read the data without the necessity of a portable computer.

The data recorded during the acquisitions are stored in a RAM CARD memory, from which they can be downloaded to a computer. The data logger NATUN1 has the "SLEEP" function, where, in order to have a very low consumption and to be battery operated also for long periods, only the clock is active and the NATUN1 will be supplied only during the prefixed acquisition rates.

The data acquisition system NATUN1 comes with a software that allows through a computer to fulfill all the operation needed: setting, data transfer, channel read out etc...

Applications

Monitoring of idrogeological, geophysical, geotechnical, meteorological, environmental data and acquisition system for technical tests etc...

Multifunctional keyboard

LCD display

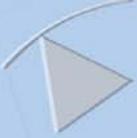
Up to 80 inputs

8 programmable scales

Alarm output

Suitable from Windows™ 95 and further





Technical features

Model	NATUN
Converter	40000 points
Inputs	0÷20 mV, 0÷200 mV, 0÷2 V, 0÷20 V , 0÷20mA , 4÷20mA, PT100, digital
Channel No.	16 channels/board (max 6 boards)
Sensor supply	+24V dc, +12V dc, +5V dc, +2V dc, +1 mA dc
Optional inputs	3 counters(0000) on-board + 2 ext. counters (0000) o 1 counter (00000000) per board
Diagnostic	6 internal diagnostic channels
Protection circuit	On/Off for out of range supply values
Memory	8Kb for operative parameters e transit data. RAM CARD for recorded data. Memory card available: 256K / 512K / 1M / 2M
Microprocessor	CMOS - 32 bits flash (in-circuit programming)
Multiplexer	Solid state Relays
Alarm output	2 alarm Relays
Display	4 lines x 20 characters, LCD, back lighted
Keyboard	Membrane with 22 keys
External supply	12Vcc ±5%
Communication	RS 232
Com. speed (Baud)	9600
Operating temperature	-20 ÷ +70 °C RH 20÷90% non condensing
Acquisition Rate	from 30 sec to 24 hours
Consumption	220 mA
Protection	IP 65
Dimensions	400x500x200 mm
Weight	3.850 Kg

Accessories & spare parts

NT01 - AX - RC01	Ram Card 256K
NT01 - AX - RC02	Ram Card 512K
NT01 - AX - RC03	Ram Card 1M
NT01 - AX - RC04	Ram Card 2M
NT01 - AX - B16C	Input board 16 channels
NT01 - AX - BILF	Anti-lightning filter
NT01 - AX - BMD1	GSM modem
NT01 - AX - BMD2	GSM modem with alarm

NTS_EN ED01/07



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