BARTEC SYSCOM

SAFETY IS OUR PRIORITY

NCC2002 / NETWORK CONTROL CENTER

APPLICATIONS

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NET BIT

Seismic Monitoring Solutions for safety related applications in:

- Nuclear Power Plants
- Nuclear Fuel Storage Plants
- Nuclear Fuel Enrichment Plants
- LNG Terminals
- Oil & Gas (sensitive sites)

DATASHEET: NCC2002

SYSCON

The NCC2002 Network Control Center enables the interconnection of up to 16 MR2002 Strong Motion Recorders in a star topology network.

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NCC2002 / NETWORK CONTROL CENTER

The NCC2002 Network Control Center enables the interconnection of up to 16 MR2002 Strong Motion Recorders in a star topology network. Data acquisition and recording is performed by the MRs, which act as autonomous units. Their activities are coordinated by the NCC. The NCC monitors on-line the operating status of each MR in the network and performs common trigger, time synchronization for all connected MRs (common sampling), high and low level alarm activation, etc.

The alarm combinations and levels as well as the common trigger master/slave configurations are all individually programmable, so the user can set-up the network as is best suited to his application, which acts as a software switch to provide normal access to any MR in the network. Data retrieval and parameter setting in all connected MRs is possible through the NCC.

The NCC may be connected directly to a central analysis computer for on-line monitoring and data analysis. A time code receiver may be connected to the NCC. It automatically sets the internal clock in the NCC. The NCC broadcasts the time information to all connected MRs.

Technical specification

Microprocessor/Firmware

Firmware

The multitasking operating system ensures communication with all connected MRs with the time code receiver and with the RS-232 port "at the same time". If vital tasks have to be executed, less important tasks will be delayed. The NCC collects information from the MRs by a polling procedure. The MR is always passive, i.e. it only replies to the questions of the NCC. This ensures a highly reliable communication between NCC and MR as any malfunction of the MR or the interconnection line is detected immediately.

Lead-acid battery, 8.5 Ah, for microprocessor only

Common trigger	Trigger voting logic (up to 32 AND combinations)
Common alarm	Trigger voting logic (up to 32 AND combinations) for two alarm levels (OBE/SSE)
Time base	Internal 20 ppm clock with battery-backup

Microprocessor: 150 mA @ 12 V Communication unit: 50 mA @ 12 V (per MR)

Fiber-optic :850 nm Tx/Rx (up to 3 km) Current-loop: 4 - 20 mA Tx/Rx (up to 1 km) 3 Relays (rating max. 60 V DC) configurable:

Normally open or normally closed (individually)
For Alarm 1 or 2, Warning, Error or Common trigger

Status information. Peak value of last event

Up to 32 LEDs to show alarm/trigger status of MRs (optional)

Aluminum 482.3 x 265.9 x 290.8 mm (LxWxH), 19" rack system

Power, Run, Polling, Error

Approx. 10 kg

IP 54

10..36 V DC

RS-232 for PC

Power Supply

Internal External Power consumption

I/0

Interfaces Interconnection to MR

Relays

Display

LCD LED Indicator Panel

Dimensions

Housing Weight Protection degree

Regulation

EMI/RFI Environmental Heat

Humidity

In compliance with IEC 61000 In compliance with IEC 60068 0°C up to 50°C (with battery) -20°C up to +70°C (without battery) up to 100% RH (non condensing)

Ordering Information

Please contact your local representative or SYSCOM Instruments SA





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