

NGT Remote Control system

The Codan NGT Remote Control System (NRCS) is the smart way to achieve clear and reliable communication when your transceiver site is located in an area affected by electrical interference. Clearer communication is achieved by relocating the NGT HF transceiver and antenna system to an area with little or no electrical interference. Using an NRCS, the transceiver can be operated from a convenient location such as an office or workplace.

The NRCS consists of a line modem and NGT Remote Interface (NRI) 3030 at each site. A single 2-wire leased line is all that is required to connect the control and transceiver site.

KEY FEATURES

Simple to use

The NRCS enables the NGT transceiver to be operated as if it were located locally. All transceiver operations are available via the user-friendly NGT desk console, which consists of a junction box, NGT handset and speaker. These operations include scanning, selective calling, receiving calls, and changing transceiver settings and personal addresses.

Single leased line

By using the latest in digital voice technology, the NRCS can operate with only a single 2-wire leased line.

Rugged design

All Codan products are designed to withstand the toughest conditions and come with full product support. A three year warranty is available with all Codan manufactured products. A one year warranty is available for the switchmode power supply and modem supplied.

ADVANCED FEATURES

System flexibility

The NRCS can be used with NGT AR and SR transceivers for simple voice-only applications.

With suitable Codan auxiliary equipment, this system also supports GPS tracking systems, data communication and radio-telephone interconnect.

The system is enhanced by the transceiver's features such as Easitalk, Phone call, smart address book, emergency selcall, built-in test equipment, and remote diagnostics. Wherever permitted, the Codan Automated Link Management (CALM) facility is supported.

Line equalisation

The NRCS includes a line modem, which uses proven data modem technology. Like Codan products, the industrial quality modem is built to survive in harsh environments and provides excellent reliability. Line equalisation is automatic, allowing a simple set up.

INFORMATION

For information on various system capabilities, requirements and ordering, please refer to Codan's System Solutions sheets.



NGT desk console, NRI and line modem at the control site

HOW IT WORKS

System configuration

The NGT desk console, NRI 3030 and line modem can be installed in a variety of convenient locations. This location (control site) is connected by a 2-wire leased line to a remote location (transceiver site), which consists of an NRI, line modem and NGT RF unit.

Digital link

The NRIs relay both audio and control information between the sites by converting the audio into a digital format and combining it with the control data. To

maintain this link, the NRIs use a full duplex RS232 connection with a speed of 9600 bps or more. In the solution provided by Codan, this is achieved by using industrial quality modems configured for use on leased lines.

System operating range

Using the line modems supplied by Codan, the total length of 2-wire cable between the control site and the transceiver site can be up to 19 km using 0.64 mm diameter copper wire (10 lb line)—standard grade line for Telstra Australia.

Geographical distances greater than 19 km may be possible if the line connection between the control and transceiver site is via one or more telephone exchanges. However, the total length of standard grade wire connecting both sites to any given exchanges should not exceed 19 km.

Power

At the control site the NRI and line modem are powered by a switchmode power supply and at the transceiver site they are powered by a 9114 power supply.

SPECIFICATIONS

	For NGT Remote Interface	For Industrial Line Modem
Power consumption	Less than 350 mA at 12 V DC	Online, 300 mA
Temperature range	0°C to 60°C	-10°C to 60°C
Humidity operating range	0 to 95%	0 to 95%
Power	Powered by switchmode power supply (at control site) and 9114 power supply (at transceiver site)	Powered by NGT Remote Interface
Size and weight	210 mm W x 240 mm D x 65 mm H; 1.8 kg	90 mm W x 130 mm D x 35 mm H; 0.85 kg (weight includes packaging and accessories)
Line interface	N/A	Leased line V.32, V.32bis, V.34: 2400-2800 bps modem standard Rx sensitivity: -43 dBm Tx level: -11 dBm
Modem interface	NRI to line modem interface: RS232 with hardware handshaking Minimal 9600 bps full duplex	N/A

Voice-only application

CONTROL SITE



NGT desk console,
NRI and line modem

2-wire leased land lines



RF unit, NRI, line modem
and 9114 power supply

TRANSCIVER SITE

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Head Office

www.codan.com.au

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Codan Limited
ABN 77 007 590 605
81 Graves Street
Newton SA 5074
AUSTRALIA
Telephone +61 8 8305 0311
Facsimile +61 8 8305 0411
asiasales@codan.com.au

Codan Limited
ABN 77 007 590 605
532 Seventeen Mile Rocks Road
Sinnamon Park Qld 4073
AUSTRALIA
Telephone +61 7 3291 6333
Facsimile +61 7 3291 6350

Codan (UK) Ltd
Gostrey House
Union Road
Farnham Surrey GU9 7PT
UNITED KINGDOM
Telephone +44 1252 717 272
Facsimile +44 1252 717 337
uksales@codan.com.au

Codan US, Inc.
10660 Wakeman Ct
Manassas VA 20110
USA
Telephone +1 703 361 2721
Facsimile +1 703 361 3812
ussales@codan.com.au