Heavy Duty VoIP Telephones

- **Reliable operation in challenging environments**
- **Tolerant of extreme temperatures, vibration, humid and dirty environments**
- **Excellent Sound Quality**
- **High performance hookswitch with no moving parts**
- **Vandal resistant handset and cord**
- **Integrated remote monitoring and control, saving maintenance cost**
- **Based on Open Standards (SIP, VoIP), allowing easy connect to other systems**
- **Easy to install and maintain**
- **Low cost of ownership**

Norphonic - The Better Alternative

The Norphonic Heavy Duty VoIP Telephone is a robust, weather resistant telephone built to withstand extreme temperatures, humid and dirty environments.

The Norphonic Heavy Duty VoIP telephone is approved for use in emergency and industrial areas, with an overall weather resistance up to IP65. The unit is manufactured in a durable aluminum casing, resistant to corrosion, rust and condensation. The hookswitch has no moving parts, making the telephone ideal for use in environments exposed to high levels of dust or grime and comes complete with a 80 dB ringer as standard.

A key feature is the Quality of Service (QoS) functionality, which enables optimal prioritisation of network traffic and impeccable transfer of voice and data.The telephone can be maintained and upgraded from a remote location, thereby slashing maintenance costs associated with conventional telephone systems. A Self Monitoring and Fault Check function is also included, ensuring maximum up-time and further saving maintenance costs.

Example Applications

Norphonic Heavy Duty VoIP Telephones are sold as a standard product, but is also available with or without keypad, fiber-ports and a range of software options to tailor each unit to the user needs. Our telephones therefore represents a perfect fit for many different industrial and emergency applications, from roadside traffic applications (ERT), railway platforms, underground mines, offshore wind turbines to utilities and production environments. Here are some of the industries we service:

- Transport (Road, Rail, Air)
- Manufacturing
- Construction
- Mining
- Power Production and Utilities
- Education
- Commercial (Sports stadias, Banking, Retail)
- Local government

Technical Specifications

Weather Resistance: IP65, ideal for environmentally difficult areas

Operating Temperatures: -25° C to +55° C

Storage Temperatures: -40° C to +80° C

Relative humidity high: 93% R.H at 30° C (non condensing)

Casing Material: Coated Aluminum (corrosion resistant)

Handset and cord: Robust coated polycarbonate handset with armored stainless steel cord IP65

Hookswitch: Magnetic with no mechanical moving parts

Ringing volume: 80 dB(A) in 1m distance

Colour: Yellow with coated Aluminium back/ sides - or special order

Weight: 3.125kg without keypad and 4 kg with keypad

Quality of Service (QoS): ensuring optimal delivery of voice and data in convergent networks

Type of Service (ToS): delivering packet precedence (i.e., priority) in network traffic, thereby ensuring low delay, high throughput and high reliability (RFC3168)

Connection: via RJ45 Ethernet socket through IP67 plug connector

Power Supply: 24V DC power via 2 pins connector (IP67). 0.3amp nominal. 0.5A max

ISDN gateway compliance: making it possible to connect any SIP compliant VoIP/ ISDN gateway to the network, allowing the telephone to call to - and receive - calls from ISDN

Virtual LAN: Telephone support 802,1Q VLAN on all network ports, which enables sharing of same physical infrastructure for several logically isolated networks.

Open standard SIP (Session Initiation Protocol) RFC3261: ensuring compatibility with your existing infrastructure and the large majority of PBX solutions (Cisco, Alcatel, Asterisk, Broadsoft, etc)

Modbus UDP and Modbus TCP open protocols: enabling remote access for status monitoring and control (link status, handset on/off, condition of telephone components, etc)

SNMP (Simple Network Management Protocol): for advanced status monitoring and control

Self-Monitoring and Fault Check Function: automatic health-check and fault sensing for increased performance

Configuration: via web interface or server based configuration file

Keypad Option: available with or without a keypad

Fibre Port Option: Telephone available with or without two single mode 100Mbit type LC connectors, which supports redundant networking (RSTP).

Flashing Light Option: A built-in beacon for use in noisy areas where a ring may not be heard.

Order Codes

With Keypad, with single mode fiber ports	TRA-K1-F1
With keypad, without fiber ports	TRA-K1-F0
Without keypad, with single mode fiber ports	TRA-K0-F1
Without keypad, without fiber ports	TRA-K0-F0

For Flashing Light Option: Add “L” at the end of the order code.

Learn more about our Innovations at
www.norphonic.com

Certified Distributor:

Dimensions / Housing

With Keypad For full calling functionality. (mm Height x Width x Depth): 470 x 200 x 70

Without Keypad used to initiate a PABX hotline, or wait for reply. Autodial on handset lift is also available. (mm Height x Width x Depth): 315 x 200 x 70

Approvals

Degree of Protection: IP65 according to Standard IEC 60529.

Mean Opinion Score (MOS): 4.3, delivering very good sound.

CE This product has met EU and European Economic Area (EEA) consumer safety, health or environmental requirements.

RoHS compliant - this product does NOT contain lead, mercury, cadmium, hexavalent chromium, poly-brominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).

EMC certification according to:
- EN 55022 (1994) + A1 (1995) + A2 (1997) Emissions
- EN 55024 (1998) + A1 (2001) + A2 (2003) Immunity
- EN 61000-4-2 Electrostatic discharge immunity
- EN 61000-4-3 Radiated immunity
- EN 61000-4-4 Electrical fast transient/burst immunity
- EN 61000-4-5 Surge immunity
- EN 61000-4-6 Conducted disturbances immunity
- EN 61000-4-8 Magnetic field immunity
- EN 61000-4-11 Voltage dips, interruptions and voltage variations immunity

Quality
All Norphonic components and equipment is produced under Quality Management Control and has been approved to ISO9001:2000 (General), ISO14001: 2004 Environmental.

For specific country approvals, please call **+47 55 62 75 20**

norphonic

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