NCP 001 D

IP PC INTERCOM STATION

WITH CUSTOMIZABLE USER INTERFACE

The IP PC intercom station is especially designed for use in state-of-the-art control rooms. The software runs on a PC with Microsoft® Windows® 10/11. Operation is possible via mouse or via optional touch screen.

Its connection and health status is constantly monitored, logged and flexibly forwarded system-internally and to third-party systems.

- Graphical user interface divided into clearly structured areas and layers
- Management of up to 2000 buttons
- Individual background images
- Display of up to 10 video streams at the same time
- Display of detailed fault information
- Audio bandwidth of up to 16 kHz
- Echo cancellation (EC)
- Automatic gain control (AGC) for microphone
- Speaker and microphone volume adjustable via user interface
- 2 Ethernet interfaces for redundant network connection
- Self-diagnostics by monitoring microphone and network connectivity

OTHER FEATURES

Intuitive user interface and clear indication of current events

Software can run exclusively or in window mode

Design of user interface can be configured via the INDUSTRONIC configuration software Config Manager X

Changes in configuration can also be performed on site using the Config Manager X (e.g. number, layout, labeling and functions of the buttons, signaling, user interface layout)

Status indications:
   Connection to the system
   Redundancy and availability status
   Faults
   Microphone active while connection is established
   Speaker or microphone muted

Confirmation prompt prior to alarm start

Dial keypad

Call history and current call requests

Various screen sizes and resolutions

Support of two monitors when application runs in window mode

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VIDEO INTEGRATION

The NCP enables the seamless integration of live video streams.

Up to 10 video streams can be displayed at the same time in different layouts clearly arranged on the NCP's graphical user interface.

In this way, live video streams are transmitted directly to the control room and simplify, for example, access control of the area.

The live video streams can be invoked in three ways:

- Automatically upon call request or call acceptance (e.g. incoming call request of an intercom station with camera)
- Automatically during an outgoing audio connection from the NCP to an intercom station with camera
- Manually via a button on the NCP's graphical user interface

APPLICATION EXAMPLE ACCESS CONTROL

### CALL REQUEST CONTROL IN SINGLE LAYOUT
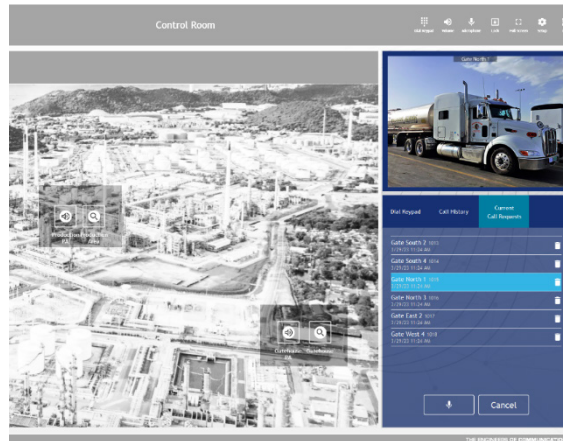


CALL REQUEST CONTROL IN GRID LAYOUT
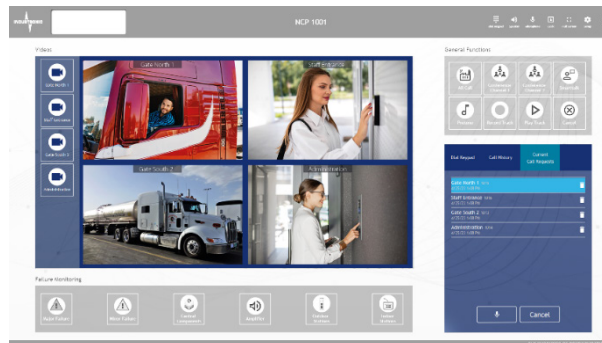
FAULT INDICATION

The NCP enables the display and confirmation of fault messages of the entire system.

- Structured display of all active fault messages at various detail levels from the system overview to the fault details of the monitored devices
- Clear signaling of pending fault message confirmations with guided navigation and direct confirmation in the view
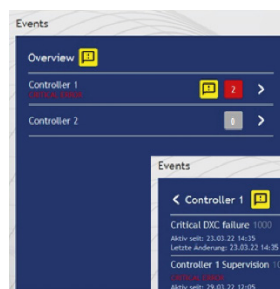
Level 1 *Overview*
Displaying all active fault messages in the entire system
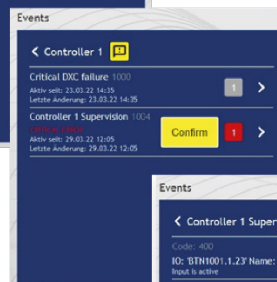
Level 2 *Events*
List of all active fault messages in the segment
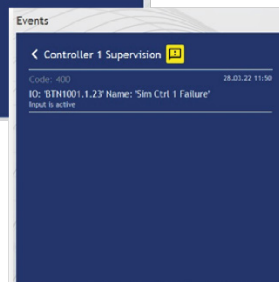
Level 3 *Error Codes*
Displaying the specific error codes of the fault message

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COMPONENTS

The components listed below can be ordered from INDUSTRONIC in different sales packages. If hardware is provided by the customer, we recommend consulting INDUSTRONIC to check the compatibility of the equipment.

If hardware from the customer or from third-party suppliers is used, INDUSTRONIC assumes no guarantee for the reliable functioning of the NCP software.

Type	1 NIPC 004
Description	PC with Windows® 10 IoT Enterprise LTSC, Intel® Core™ i3, 4 GB RAM, SSD 120 GB
Type Number	351-100-400

Type	19 NTMD 003
Description	19" touch screen monitor with stand and bracket for mounting the PC of *1 NIPC 001, 1 NIPC 002* and *1 NIPC 004* series
Type Number	351-200-400

Type	24 NTMD 001
Description	24" touch screen monitor with stand
Type Number	351-200-500

Type	1 NMID 001
Description	Desktop microphone with Push-to-Talk button (PTT button) for connection to a PC via a 1.4 m (4.59 ft) long USB cable
Type Number	001-002-013

Type	1 NMID 002
Description	Desktop microphone with Push-to-Talk button (PTT button) for connection to the handset of the *1 NHAS 001* series via a 1.6 m (5.25 ft) long RJ10 cable
Type Number	001-002-014

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Type	2 NSPD 002
Description	Desktop speakers for connection to a PC via a 1 m (3.28 ft) long USB cable, 100 Hz to 18 kHz
Type Number	202-523-500

Typ	30 NSPD 002
Description	Desktop speakers for connection to the handset of the *1 NHAS 001* series via a 1.5 m (4.92 ft) long RJ10 cable, 170 Hz to 20 kHz
Type Number	202-523-600

Typ	1 NHAS 001
Description	Handset with Push-to-Talk button (PTT button) for connection to a PC via a 2 m (6.56 ft) long USB cable
Type Number	070-007-134

Type	1 NHES 001
Description	Monaural headset with flexible gooseneck microphone, USB interface with PTT button, for operation at an IP PC intercom station NCP 001 D. Interface: USB-A
Type Number	070-013-003

Type	1 NHES 001/H
Description	Monaural headset with flexible gooseneck microphone, for operation at an IP PC intercom station NCP 001 D. For hygiene reasons, we recommend a personal headset for every employee. To operate the headset you require one single USB interface with PTT button (included in type number 070-013-003). Interface: Binder plug
Type Number	070-013-002

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TECHNICAL DATA

ELECTRICAL DATA

Power supply	100 V AC to 240 V AC, 50/60 Hz
Power consumption	Max. 60 W Typical 40 W

MINIMUM REQUIREMENTS FOR PC HARDWARE*

Processor	Intel® Core™ i3 processor (or comparable)
Mass storage	120 GB HDD or SSD
RAM	4 GB
Graphics	Intel® HD 4400 (or comparable), DirectX 11
Graphics interface	DVI, HDMI or DisplayPort (in correspondence to the monitor)
Interfaces	4 x USB 3.0
Network interfaces	2 x LAN 100 MBit

*Dedicated hardware recommended. One audio component must be exclusively available for NCP applications.

NETWORK REQUIREMENTS

IPv4 network

Support of UDP, TCP, RTP and RTCP protocols

Quality of Service (QoS)
    Ideal latency value: < 20 ms (max. 50 ms)
    Jitter: max. 10 ms

10Base-T/100Base-TX Ethernet (IEEE 802.3), 100 MBit/s recommended

200 kBit/s basic bandwidth and 200 kBit/s for active audio channel

VIDEO INTEGRATION

Camera type	Video-over-IP
Video streams	Up to 10 at the same time (4 when using the standard NCP hardware)
Supported video codec	Motion JPEG (MJPEG)
Streaming	Via HTTP/HTTPS protocol
Max. frame rate (live display)	15 FPS

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OPERATING SYSTEMS

Software runs under:

Microsoft® Windows® 10 IoT Enterprise

Microsoft® Windows® 10 Pro

Microsoft® Windows® 11 IoT Enterprise

Microsoft® Windows® 11 Pro

ACTIVATIONS

Description	Type Number
ACT-NCP Base Activation for one INDUSTRONIC IP intercom station of the NCP series	101-200-001
ACT-NCP 200 Buttons Activation of 200 buttons for INDUSTRONIC IP intercom stations of the NCP series	101-200-003
ACT-NCP Video Activation of the video function for one INDUSTRONIC IP intercom station of the NCP series	101-200-005
NCP Base & Buttons Activation for one INDUSTRONIC IP intercom station of the NCP series with 200 buttons	101-201-001
NCP Base, Buttons & Video Activation of the video function for one INDUSTRONIC IP intercom station of the NCP series	101-201-002

ORDER DATA

Type	Software	Speaker 2 NSPD 002	Speaker 30 NSPD 002	Microphone 1 NMID 001	Microphone 1 NMID 002	Handset 1 NHAS 001	PC 1 NIPC 004	Monitor 19 NTMD 003	Monitor 24 NTMD 001	Type Number
NCP 001 S	x									351-600-100
NCP 001 S-A01	x	x		x						351-601-100
NCP 001 S-A02	x		x		x	x				351-601-200
NCP 001 D-A01C04M1901	x	x		x			x	x		351-610-400
NCP 001 D-A02C04M1901	x		x		x	x	x	x		351-610-500
NCP 001 D-A01C04M2401	x	x		x			x		x	351-610-600

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