



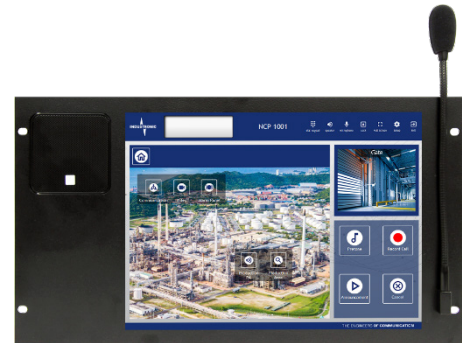
NCP 001 R

IP PC INTERCOM STATION

FOR RACK MOUNTING WITH CUSTOMIZABLE USER INTERFACE

The NCP 001 R is designed for use as a service station in a cabinet. The software runs on an industrial PC with Microsoft® Windows® 10. Operation is optimized for touch input.

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 4 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

VIDEO INTEGRATION

The NCP enables the seamless integration of live video streams.

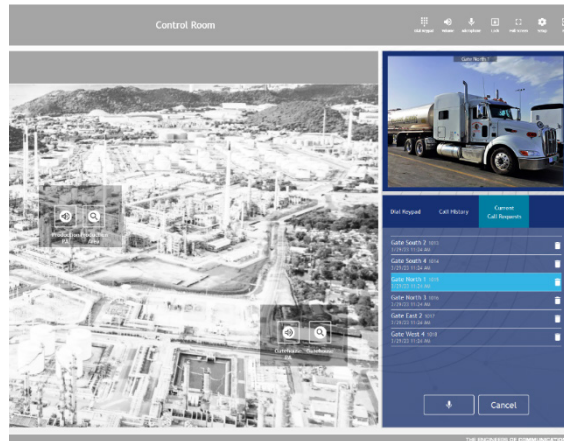
Up to 4 video streams can be displayed at the same time in different layouts clearly arranged on the NCP's graphical user interface.

The live video streams can be invoked in three ways:

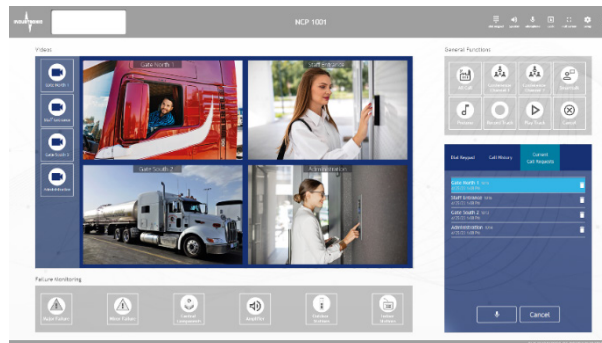
- Automatically upon call request or call acceptance (e.g. incoming call request of an intercom station with camera)
- Automatically during an outgoing audio connection from the NCP to an intercom station with camera
- Manually via a button on the NCP's graphical user interface

APPLICATION EXAMPLES

CALL REQUEST CONTROL IN SINGLE LAYOUT



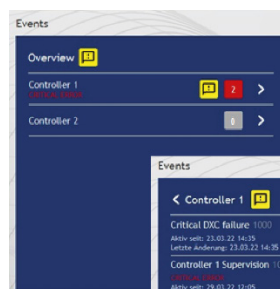
CALL REQUEST CONTROL IN GRID LAYOUT



FAULT INDICATION

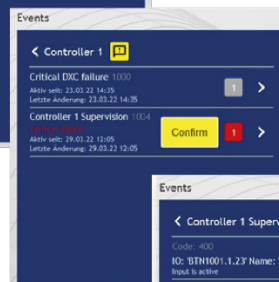
The NCP enables the display and confirmation of fault messages of the entire system.

- 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



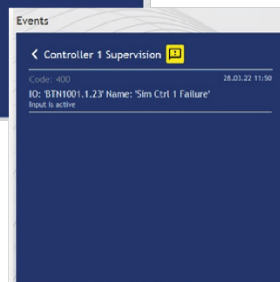
Level 1 Overview

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

COMPONENTS

Software for NCP 001

PC with operating system
Microsoft® Windows® 10 IoT Enterprise LTSC

15" TFT monitor with resistive touch screen suitable for industrial environments, 1024 x 768 pixels

Gooseneck microphone

Speaker

ELECTRICAL DATA

Power supply 12 V DC

Power consumption Max. 50 W
Typical 35 W

MECHANICAL DATA

Design 19" slide-in chassis, 6 RU

Width x height x depth 483 mm x 267 mm x 150 mm
(19" x 10.51" x 5.91")

Weight 7 kg (15.43 lbs)

Color Deep Black (RAL 9005)

PC HARDWARE

Processor Intel® Core™ i3 processor

Mass storage SSD

Network interfaces 2 x LAN 100 MBit

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 4 at the same time

Supported video codec Motion JPEG (MJPEG)

Streaming Via HTTP/HTTPS protocol

Max. frame rate (live display) 15 FPS

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	Type Number
NCP 001 R-A51C04M1550	351-650-400

ACCESSORY

Type	5 DRDC 12
Description	DC/DC converter for DIN Rail mounting Input voltage from 18 V CD to 75 V DC Output voltage from 9 V DC to 13.2 V DC Output power max. 60 W
Type Number	309-113-000
Type	4 GW 01
Description	DC/DC converter Input voltage from 36 V DC to 72 V DC Output voltage 12 V DC Output power max. 50 W
Type Number	309-107-200



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