DATASHEET

Series WS 800V I



IP Wallmount Stations Series WS 800V I

These vandal-resistant Intercom stations have many uses. In public areas they serve as information and help points for passers-by to request help and receive assistance in cases of emergency. The technology ensures excellent speech quality and clarity, regardless of the ambient noise level. Continuous monitoring function ensures reliable availability around the clock. The durable high-grade steel front plates with poke protection and special screws provide protection against

WS 800V I

IP station with LCD graphic display with white backlight, back-lit alphanumeric standard keypad, function buttons, omnidirectional electret condenser microphone with multifunction LED, loud-speakers 2 x 8 Ω , 3 inputs for floating contacts and 2 relay outputs (connection as "make" or "break" contact), protection classification IP66 and IK07, material stainless steel.

vandalism. The compact construction is fully protected against water jets, dirt and dust. The extra large emergency call buttons are easily visible even distance and activate easily and reliably.

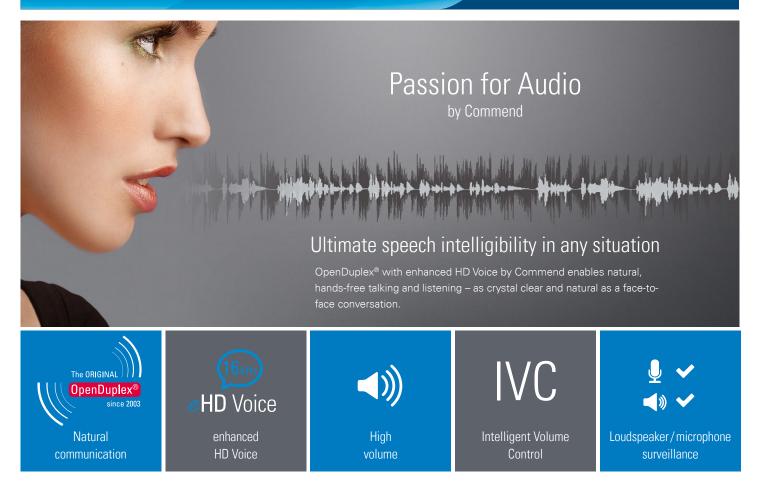
Typical applications:

Public foyers, Parking lots and garages, Leisure facilities, Schools and universities



DATASHEET

≫ WS 800V I



AUDIO FACTS

- eHD Voice enhanced HD Voice by Commend transfers the audio signal at a bandwidth of 16 kHz, thus capturing the entire frequency spectrum of the human voice
- **STI** (Speech Transmission Index) **0.96** measured under acoustic laboratory conditions (STI is a standard measure for speech intelligibility. It has a possible maximum value of 1.00, which corresponds to perfect intelligibility)
- Loudspeaker/microphone monitoring ensures the availability of the Intercom station while reducing the need for manual verification of its functionality
- Audio monitoring fully automated emergency calls triggered by shouting/screaming or pre-defined distress sounds – i.e., more security for users
- Peer2Peer audio reduces network and server load to ensure efficient use of resources

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- Audio recording and lip synchronous audio/video recording of conversations for documentation and evidence keeping purposes
- **Conference call function** for simultaneous talking with multiple conversation partners
- Speech activity detection senses when calls are finished (no microphone signal) and terminates the connection automatically
- **Simplex mode** for applications requiring controlled communication e.g., security solutions based on the 'push-to-talk/release-to-listen' method
- **OpenDuplex**[®] for natural for natural, hands-free communication
- **IVC** (Intelligent Volume Control) automatically adjusts the device's volume setting to the ambient noise level
- Public Address functions



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Technical Data – Benefits

TECHNICAL DATA

LOUNDAE	DAIA	
IP rating acc. EN 6	30529:	IP66
Mechanical impac	t resistance acc. EN 62	2262: IK07
Front panel:	1.4301/AIS	31 304, 3 mm (0.12 in)
Microphone:	polar pat	ondenser microphone ttern: omnidirectional ince: max. 7 m (23 ft)
Loudspeaker: quality, sound pre	special membrane ty ssure level: 85 dB/1 W,	/pe for optimal sound /1 m (3.28 ft), 2 x 8 Ω
Amplifier:	integrated class-D	amplifier with 2.5 W
Sound pressure le	vel:	max. 99 dB
Handset, headset EP level: 8	: EN EM impedance: 3.3 k 850 mV _{eff} at 0 dBm0 / E	M sensitivity: 14 mV _{eff} Ω / EM supply: 2.5 V EP impedance: 200 Ω
Input:		s for floating contacts tion of 5 input states)
Output:	max.	switch-over contacts) 60 VDC, 2 A, 60 W ¹⁾ 5 x 10 ⁴ (2 A), 10 ⁵ (1 A)
Line output:	for connection	loudspeaker module
Call indication: r	multifunction LED (colo	ours: red, green, blue)
Keypad:	alphanumeric full ke activation forc	ypad, white backlight :e: 3 N, 1 x 10º cycles
Display:	mono-LCD di	isplay, 128 x 64 pixel, white backlight
Transmission band	dwidth:	16 kHz
Operating temper	ature range:	–20 °C to 70 °C (–4 °F to 158 °F)
Storage temperati	ure range:	–20 °C to 70 °C (–4 °F to 158 °F)
Relative humidity:	up to S	95%, not condensing
Connection:	expansion plu	able screw terminals g for e.g. EB2E2AHE d RJ45 modular jacks
Power supply:	12-2	oE or external supply 4 VAC or 15–35 VDC sumption: max. 4.6 W
Cabling:		min. Cat. 5
PoE (Power over E	power consumption o	EEE 802.3af standard f the terminal device:) (0.44 W to 12.95 W)
Protocol:	IoIP-Proto	ocol based on UDP/IP
Data rate:	10/100 ME	Bit/s (Full/Half Duplex)
Mounting:		mount kit WSFB 50V mount kit WSSH 50V
Dimensions (WxH	164 x 279 x 14 mm (6	ith surface mount kit:
Weight incl. packa		1.300 g (2.9 lbs)
Polgine mol. packe	.90.	1.000 g (2.0 103)

 11 The relay output may only be connected to a SELV circuit! A SELV circuit as per IEC/EN 60950-1 must be separated safely from a dangerous electrical circuit (e.g. 230 V or 110 V mains power), e.g. by means of double insulation. The SELV circuit must not exceed 60 VDC or 42.4 VAC_{_{peak}}(30 VAC_{_{eff}})!

BENEFITS

- Vandal-resistant
- Mono-LCD display
- Full keypad and function buttons (back-lit)
- IP rating IP66 and mechanical impact resistance IK07

LINE LENGTH

The maximum line length of Cat. 5 cabling in a LAN is 100 m (328 ft) – e.g. from switch to Intercom station.

EXTENT OF SUPPLY

- Intercom station
- Short reference
- Screws for mounting



System/Network Requirements

SYSTEM REQUIREMENTS

- GE 800 (min. PRO 800 1.2) with G8-IP (min. G3-8-IP 4.0b01) or
- GE 300 (min. PRO 800 1.2) with G3-IP (min. G3-8-IP 4.0b01) or
- VirtuoSIS/S3/S6
- Configuration software min. CCT 800 1.2
- Configuration software IP Station Config (included in setup of CCT 800 1.2)

REQUIREMENTS TO THE NETWORK

IP Addresses and Ports

- For the WS 800 I the DHCP functionality is available. If DHCP is not used, the WS 800 I must have a fixed IP address.
- In case of a changing public IP address, dynamic registration of a WS 800 I is possible.
- Communication from the program IP Station Config is done via Port 16399 (can not be configured).
- Communication from the WS 800 I to the Intercom Server (UDP protocol) is done via port 16400 (configurable).

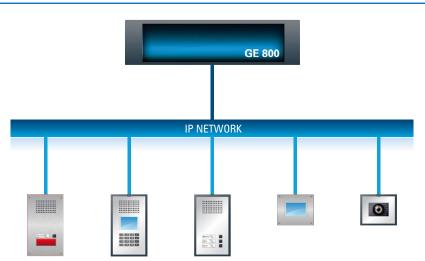
QoS Requirements

- Maximum One-Way-Delay 100 ms
- Delay-Jitter not above 50 ms
- 0% packet loss for perfect audio quality

Bandwidth

- Required Bandwidth incl. protocol overhead per WS 800 I, for upload/download each: speech and data 96 kBit/s
- Speech is compressed according to G.722 standard

SYSTEM OVERVIEW



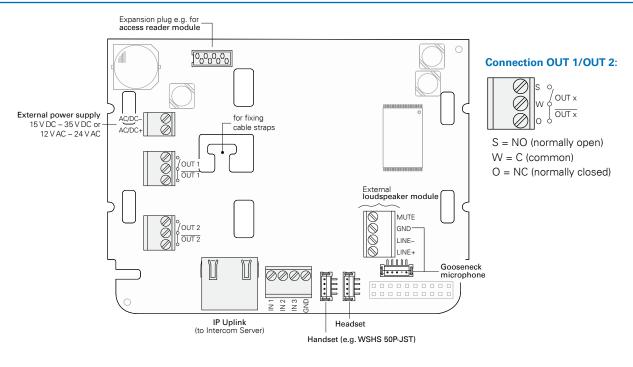


Installation

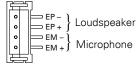
SAFETY INSTRUCTIONS

- When opening the stations ESD precautions must be observed.
- The stations may only be opened by authorised service engineers.

CONNECTION

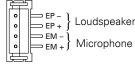


Connection headset:



Note: The headset socket has to be activated via an ICX message (see below).

Connection handset:



ICX message for connection headset:

Microphone

Microphone / loudspeaker	Task	Туре	Data (variable length)	Server-SW
Switchover microphone / loudspeaker (subscriber)	40	92	TTTT 050Z	Pro 800 2.1

Variable TTTT \rightarrow 4-digit call number of the subscriber Variable $Z \rightarrow 0$ = deactivate; 1 = activate; 2 = toggle



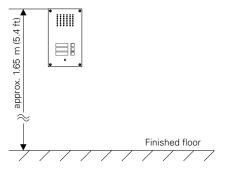
Installation

MOUNTING INSTRUCTIONS

- Do not expose the station to extreme temperature (below -20 °C or above +70 °C / -4 °F to 158 °F).
- For flush mounting a flush mount kit WSFB 50V (available separately) is required.
- For surface mounting a surface mount kit WSSH 50V (available separately) is required.

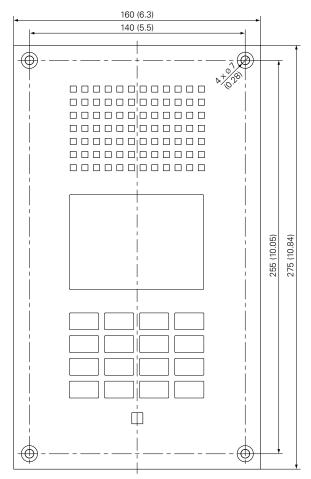
Recommended Mounting height

The upper edge of the station approx. 1.65 m (5.4 feet) from the finished floor. Please adapt the mounting height to the individual needs.



DIMENSIONS FRONT PANEL

Front panel thickness: 3 mm (0.12") Measuring units in mm (inch), not scale!





QUALITY TESTED. RELIABLE. SMART.

COMMEND products are developed and manufactured by Commend International in Salzburg, Austria.

The development and manufacturing processes are certified in accordance with **EN ISO 9001:2015**.

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A STRONG WORLDWIDE NETWORK

COMMEND is represented the world over by local Commend Partners and helps to improve security and communication with tailored solutions.

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