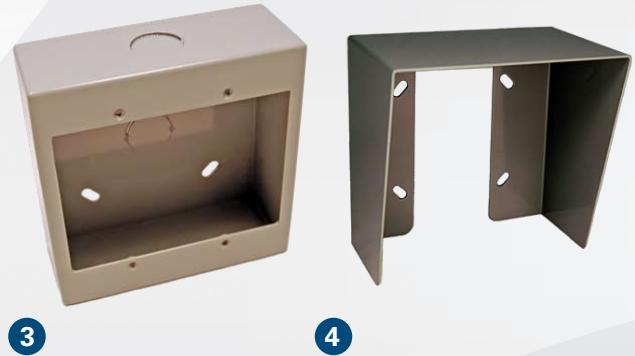
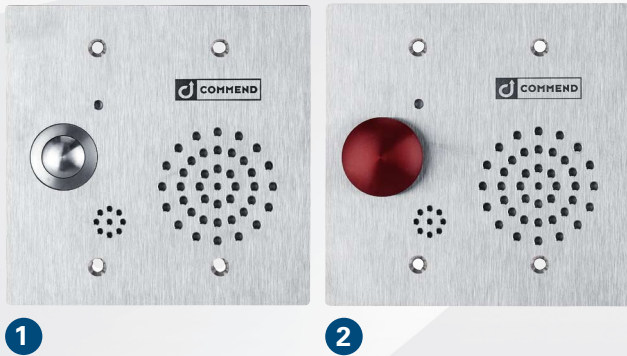


ES series



2-Wire 2-gang Substations

The digital flushmount substations ES831A and ES833A are designed especially for building into American “2-gang” boxes. The intercom stations are manufactured in the new DSP-technology, which enables functions such as Audio-Monitoring or Loudspeaker/Microphone Monitoring. The stations are prepared for future download of new functions (updates to new versions) and can utilize the Open Duplex capability of the GE300 and GE800 intercom servers.

1. ES831A

Silver button tamper resistant 2-wire substation with new DSP-technology. Integrated digital duplex controller for optimal speech quality at the door, even from a distance or with high ambient noise levels. A protective plate in front of loudspeaker prevents possible damage.

2. ES833A

Red mushroom button tamper resistant 2-wire substation with new DSP-technology. Integrated digital duplex controller for optimal speech quality at the door, even from a distance or with high ambient noise levels. A protective plate in front of loudspeaker prevents possible damage.

3. ES2GBB

- 2-gang backbox
- powder coated gray

4. ES2GRH

- 2-gang rain hood
- powder coated gray

Technical Data – Benefits

TECHNICAL DATA

Keyboard:	Possibility of connecting 12 buttons, with plug for row/column matrix
Microphone:	Omnidirectional electret microphone for max. 7 m (23 ft) speaking distance
Loudspeaker:	Special membrane type for optimal sound quality, sound pressure: 85 dB/1 W/1 m (3.28 ft), 8 Ohm
Amplifier:	built-in amplifier 2.5 W output power with built-in loudspeaker: 1.5 W
Input:	1 input for floating contacts, max. 1 kOhm (detection of 5 input states)
Output:	1 relay output 30 V / 1 A
Call indication:	multifunctional LED (colours: red, green, blue)
Frequency range:	200 – 16,000 Hz
Operating temperature range:	-20° C to +70° C (-4° F to 158° F)
Storage temperature range:	-20° C to +70° C (-4° F to 158° F)
Relative humidity:	up to 95 %
Plug:	pluggable screw terminals - expansion plug for e.g. EB 2E2A
Cabling:	star feed, 2-wire, twisted
Power supply:	from Intercom Server Option: external power supply for greater line length (12–24 VAC or 15–35 VDC, 500 mA)
Signalling:	2B + D (2 x 64 kBit/s speech, 16 kBit/s data)
Measurements:	87.5 x 109 x 40 mm (3.45 x 4.29 x 1.58 in)
Weight incl. package:	195 g (0.4 lbs)

SYSTEM REQUIREMENTS

FULL SCOPE OF OPERATION only with GE 800 / GE 300:

- GE 800 (min. PRO 800 1.2) with G8-GED (G3-8-SUB min. 3.2)
- GE 300 (min. PRO 800 1.2) with G3-GED (G3-8-SUB min. 3.2)

BACKWARDS COMPATIBILITY to GE 700 / GE 200:

Is recognized as ET 862 and therefore can only be used with the feature scope of the ET 862.

- GE 700 (min. Pro 05.0) with G7-GED-4 (min. Software V02.2)
- GE 200 (min. Pro 05.0) with G2-GED-4 (all software versions)

See also page 4.

BENEFITS

- Excellent 16 kHz speech quality, even from a distance (up to 7 m / 23 ft)
- Cabling with 2 wires, star feed, fully digital transmission of speech and data
- DSP-technology, prepared for software download of future functions
- Audio-Monitoring, adjustable integration time and noise level
- Loudspeaker-/Microphone Surveillance
- Built-in loudspeaker and microphone
- Integrated amplifier with 2.5 W output
- Output contact for direct connection of e.g. doors or gates
- Connection of 12 buttons with row/column matrix
- Expansion via optional expansion boards (e.g. EB 2E2A)

EXTENT OF SUPPLY

1 Intercom module including:

- Light pipe and plexiglass LED cover, optionally as light guide for the multifunction-LED.
- Short reference

LINE LENGTH

Cable type	Power Supply Intercom Server		
	24 V AC	30 V DC	26 V DC
Ethernet cable e.g. Cat. 5 Loop resistance: 190 Ω/km Capacity: 48 nF/km	1500 m 4921 ft	1700 m 5577 ft	1400 m 4593 ft
Telecommunication cable e.g. F-YAY; ø 0,6/0,8mm Loop resistance: >135 / >73 Ω/km Capacity: 100 nF/km	1500 m 4921 ft	2100 m 6889 ft	1500 m 4921 ft
External power supply	max. 2800 m / 9186 ft		

All values for connected loudspeaker ≥8 Ω and Volume level 9. Voltage Monitoring see page 4.

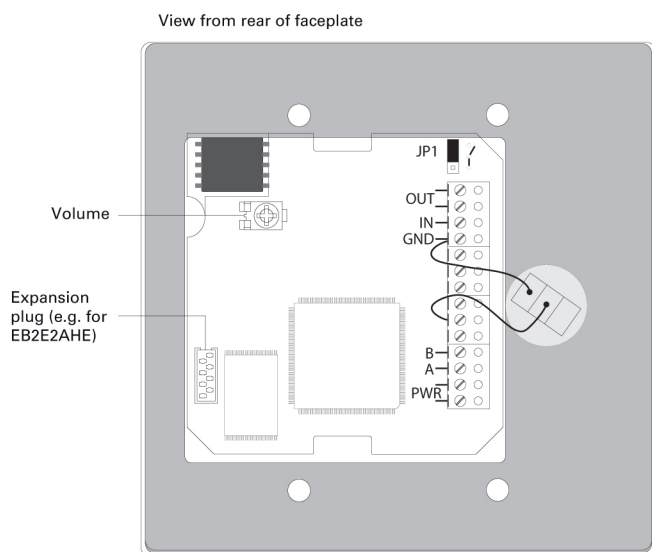


Installation

PRECAUTIONS

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

CONNECTION DIAGRAM



COMMEND

A strong Partner Network | Worldwide

Europe

SWITZERLAND	Commend AG Tel. +41-44-955 02 22 www.commend.ch
FRANCE	Commend France S.A.S. Tel. +33-149 18 16 40 www.commend.fr
SPAIN	Commend Iberica S.L. Tel. +34-91-395 24 98 www.commend.es
PORTUGAL	
ITALY	Commend Italia s.r.l. Tel. +39-035-95 39 63 www.commend.it
NETHERLANDS	Commend Nederland B.V. Tel. +31-76-200 01 00 www.commend.nl
BELGIUM	
AUSTRIA	Commend Österreich GmbH Tel. +43-1-715 30 79 www.commend.at
CROATIA	
SERBIA	
SLOVENIA	
RUSSIA	
SLOVAKIA	Commend Slovakia spol. s r.o. Tel. +421-2-58 10 10 40 www.commend.sk
CZECHIA	
UNITED KINGDOM	Commend UK Ltd Tel. +44-1279-45 75 10 www.commend.co.uk
IRELAND	
POLAND	C&C Partners Telecom Sp.z o.o. Tel. +48-65-525 55 55 www.ccpartners.pl
SWEDEN	JNT Sound System AB Tel. +46-8-99 30 60 www.jnt.se
NORWAY	
FINLAND	
DENMARK	
ISLAND	
GERMANY	Schneider Intercom GmbH Tel. +49-211-88285-333 www.schneider-intercom.de
LUXEMBOURG	
RUSSIA	

America

USA	Commend Inc. Tel. +1-201-529-2425 www.commendusa.com
CANADA	
LATIN AMERICA	

Asia

CHINA	Commend Business Hub China Isolectra China Tel. +86-21-52 13 19 28 www.isolectra.com.cn
MALAYSIA	Commend Business Hub Malaysia Isolectra (M) Sdn Bhd Tel. +603-7846-9988 www.isolectra.com.my
SINGAPORE	Commend Business Hub Asia Isolectra Far East Pte. Ltd Tel. +65-6272-2371 www.commend.com.sg

Middle East

ISRAEL	Sberlophone Ltd Tel. +972-4-834 10 32 www.sberlophone.co.il
--------	-------------------------------------------------------------------

Oceania

AUSTRALIA	Commend Australia Tel. +61-3-9755-3947 www.commend.com.au
NEW ZEALAND	

Other countries

	Commend International GmbH Tel. +43-662-85 62 25 www.commend.com
--	------------------------------------------------------------------------



SECURITY AND COMMUNICATION