





DX/DXE 7x5 Series

## **DIGITAL EX-PROOF INTERCOM STATION**

# FOR USE IN EXPLOSIVE (HAZARDOUS) AREAS OF ZONE 1 AND 2

They are used in extreme environments as typically found in the OI & Gas and the Chemical & Pharmaceutical sector as well as in the Steel industry. The rugged design allows for clear and reliable communication at any time, whether you operate the intercom station in extreme cold or heat, dit or dust or explosive (hazardous) environments as classified by zone 1 and 2.

The robust two-part housing is made of flame-retardant, glass-fiber reinforced polyester. The electronics inside is installed in aflameproof enclosure and the terminal compartment provides increased safety. The user controls are controlled via intrinsically safe electronics.

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

- Housing made of glass-fiber reinforced polyester
- Equipment group and category Ex II 2G
- Operating temperature range DX series
   40 °C to +70 °C (-40 °F to +158 °F)
- Configurable and programmable user controls: dial keypad and momentary rocker switch
- Designed for use with industrial gloves
- Visual indication of call or busy status via LEDs
- Noise-compensating microphone with dynamic compression
- Adjustable speaker volume and microphone
- Self-diagnostics by monitoring of internal electronics, microphone and cable path
- Potential-free relay contact





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FLEXIBLE AND EASILY EXPANDABLE
The intercom stations of the DX/DXE series can be expanded with various external explosion-proof (hazardous) components. An optional ZS-W booster amylifier installed in the flame-proof enclosure enables the use of an external speaker. Based on project or specification needs, you can connect all flashing warning beacon. Additionally, you can connect a headset or handset - if required also together with a foot switch.



To visually signal an alarm or an incoming call Flashing Warning For private conversations or high ambient noise areas For safe communication in high ambient

**BT (189** 

\* For DXE series only

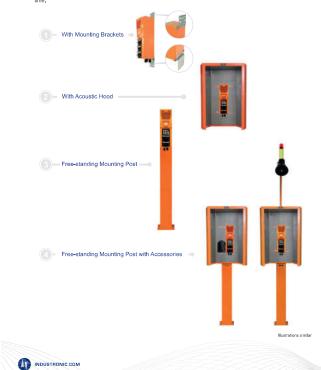






# MULTI-FACETED MOUNTING OPTIONS AND ROBUST MECHANICAL ACCESSORIES

To make best use of your intercom station, you can mount it to steel I-beams or to internal and external walls. Using the mounting brackets available in the 1 AMW 05 mounting kit, you can easily mount and ideally algn it. In areas, where you cannot directly mount the intercom station to a wall (e.g. for gates or entrance areas), a free-standing mounting post that is botted to the ground can be supplied. If required, you can also mount additional acoustic or visual signaling devices to it. In high ambient noise areas, acoustic hoods provide adequate noise insulation to ensure dear communication at any time.



# **SERIES OVERVIEW**

## DX SERIES



| DX 705      | Up to three momentary rocker switches, equipment group and category Ex II 2G, degree of protection IP66, marking Ex db eb ib IIC T4 Gb, ~40 °C to +70 °C (~40 °F to +158 °F), 42 V DC to 72 V DC |
|-------------|--|
| WxHxD       | 141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")  |
| Weight      | Approx. 7 kg (approx. 15.43 lbs)   |
| Accessories | See "Accessories for DX/DXE Series", page 7  |
|             |  |



| One dial keypad and up to two momentary rocker switches, equipment group and category Ex II 2G, degree of protection IP66, marking Ex db eb ib IIC T4 Gb, |
|---|
| -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 72 V DC  |
| 141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")   |
| Approx. 7 kg (approx. 15.43 bs)   |
| See "Accessories for DX/DXE Series", page 7   |
|   |
|   |

# DXE SERIES WITH CONNECTOR FOR EXTERNAL ACCESSORIES



| DXE 705     | Up to three momentary rocker switches, connector for one handset, headset, or foot switch, equipment group and category Ex II 26, degree of protection IP66, marking Ex do eb its [I6] IIC 74 Gb, -20 °C to +55 °C (-4 °E to +131 °F), 42 °D C to 72 °D CC |
|-------------|--|
| WxHxD       | 141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")  |
| Weight      | Approx. 7 kg (approx. 15.43 lbs)   |
| Accessories | See "Accessories for DX/DXE Series", page 7 and<br>"Accessories for DXE Series Only", page 9   |
|             |  |



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# **SERIES OVERVIEW CHART**

## DX SERIES

| Туре                         | 8000                       | 100                       |                          | Booster Amplifier* | Type Number    |
|------------------------------|----------------------------|---------------------------|--------------------------|--------------------|----------------|
| 2 DX 705                     |                            | 1                         | 2                        |                    | 301-650-200    |
| 2 DX 705/25                  |                            | 1                         | 2                        | x                  | 301-650-200/25 |
| 2 DX 715                     | ×                          | 1                         | 1                        |                    | 301-650-201    |
| 2 DX 715/25                  | x                          | 1                         | 1                        | ×                  | 301-650-201/25 |
| 4 DX 705                     |                            | 2                         | 1                        |                    | 301-650-400    |
| 4 DX 705/25                  |                            | 2                         | 1                        | х                  | 301-650-400/25 |
| 4 DX 715                     | ×                          | 2                         |                          |                    | 301-650-401    |
| 4 DX 715/25                  | ×                          | 2                         |                          | x                  | 301-650-401/25 |
| 6 DX 705                     |                            | 3                         |                          |                    | 301-650-600    |
| 6 DX 705/25                  |                            | 3                         |                          | x                  | 301-650-600/25 |
| * Operating temperature rank | on of the DV intercem stat | one changes to 40 °C to 4 | 55 YO F 40 YE AV 4131 YE |                    |                |

<sup>\*</sup> Operating temperature range of the DX intercorn stations changes Other types of intercorn stations are available upon request.

## DXE SERIES

| Туре         | 0000 |   | Booster Amplifier | Type Number    |
|--------------|------|---|-------------------|----------------|
| 4 DXE 715    | x    | 2 |                   | 301-651-401    |
| 4 DXE 715/25 | x    | 2 | x                 | 301-651-401/25 |
| 6 DXE 705    |      | 3 |                   | 301-651-600    |
| 6 DXE 705/25 |      | 3 | х                 | 301-651-600/25 |



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| DXE 715     | One dial keypad and up to two momentary rocker switches, connector for one handset, headset, or foot switch, equipment group and category Ex II 26, degree of protection IP66, marking Ex db et bit [bi] IIC 14 Gb, –20 °C to +55 °C (4 °F to +13 °F), 42 V DC to 72 V DC |
|-------------|---|
| WxHxD       | 141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")   |
| Weight      | Approx. 7 kg (approx. 15.43 lbs)  |
| Accessories | See "Accessories for DX/DXE Series", page 7, and<br>*Accessories for DXE Series Only", page 9   |
|             |   |

# **TECHNICAL DATA**

## MECHANICAL DATA

| MECHANICAL DATA        |  |  |  |
|------------------------|--|--|--|
| Width x height x depth | 141 mm x 484 mm x 171 mm<br>(5.55" x 19.06" x 6.73")   |  |  |
| Cable glands           | 3 x M20<br>(cable diameter: 4 mm to 13 mm<br>(0,16" to 0,51"))<br>1 x M25 (cable diameter: 7 mm to 17 mm<br>(0,28" to 0,67") |  |  |
| Weight                 | Approx. 7 kg (approx. 15.43 lbs)   |  |  |
| Color                  | Pure Orange (RAL 2004)   |  |  |
|                        |  |  |  |

| ELECTRICAL DATA                                       |  |
|---|--|
| Operating voltage range                               | 42 V DC to 72 V DC   |
| Quiescent current consumption                         | 20 mA  |
| Max. current consumption                              | 80 mA  |
| Sound pressure level<br>(distance of 30 cm (0.98 ft)) | 106 dB   |
| Speaker   | 15 W / 8 Ohms  |
| Relay contact   | 1 A, 90 V DC, 30 W (resistive load)<br>0.3 A, 90 V DC (any type of load) |

#### ENVIRONMENTAL REQUIREMENTS AND STANDARDS

| Relative humidity<br>(non-condensing) | Max. 95 %                                 |
|---------------------------------------|---|
| Degree of protection                  | IP66                                      |
| EMC                                   | IEC/EN 61000-6-2<br>IEC/EN 61000-6-4      |
| Certificates                          | PTB 19 ATEX 2005 X<br>IECEx PTB 19,0026 X |
| Equipment group and category          | Ex II 2G                                  |
|                                       |   |



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