DA/DAE 7x5 Series

DIGITAL OUTDOOR INTERCOM STATIONS

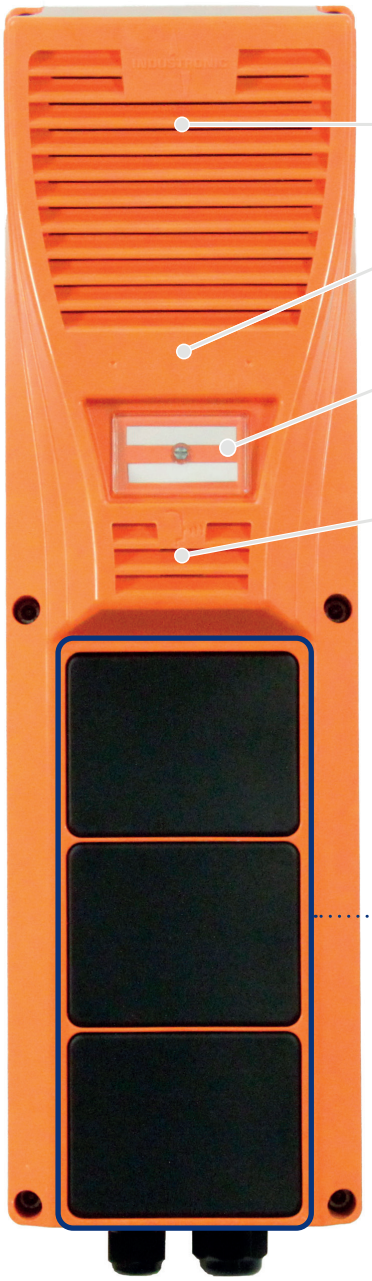
ROBUST OUTDOOR INTERCOM STATION FOR USE IN HARSH INDUSTRIAL ENVIRONMENTS

They are used in extreme environments as typically found in the Oil & 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 or in dirty and dusty environments.
The robust two-part housing is made of glass-fiber reinforced polyester. The compact interior is equipped with a horn speaker that ensures highest intelligibility even in high ambient noise areas and a noise-compensating microphone with dynamic compression. Use the protective label to display the call number or the location of the intercom station in the plant.
Its connectivity and health status is constantly monitored, logged and flexibly notified system-internally and to third-party systems.

- Degree of protection IP66
- Housing made of glass-fiber reinforced polyester
- Configurable and programmable user controls: dial keypad, momentary rocker switch and membrane keypad with 9 keys
- 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 sensitivity
- Self-diagnostics by monitoring of internal electronics, microphone and cable path
- Potential-free relay contact

USER CONTROLS

The different modular user controls allow for customization according to customer and project-specific needs at any time. The housing can be configured with one dial keypad combined with momentary rocker switches or membrane keypads. But you also have the option to use up to three momentary rocker switches or up to three membrane keypads with 9 keys each. Just as you like.



Horn Speaker
Clear sound quality in low and high ambient noise environments

Equipment Identification
Free space to apply device tag

Protected label
To display the call number or location of intercom station in the plant

Microphone
Noise-compensating microphone with dynamic compression

Industrial Dial Keypad
To enter call numbers; use the * key to speak and the # key to delete the call number entered

Industrial Momentary Rocker Switch
Freely programmable, integrated red LEDs for call and busy signaling, protective labels, designed for use with industrial gloves

Membrane Keypad with 9 Keys
9 freely programmable keys, integrated red LEDs for call and busy signaling, protective and interchangeable labels

Cover Plate
To protect module openings

Degree of Protection IP 6 6

IP (**I**nternational **P**rotection)

2nd digit - Protection against the ingress of water

1st digit - Protection against solid foreign objects and contact with live components

1st Digit		2nd Digit	
6	Dust tight and complete protection against contact with live parts	6	Protected against high pressure water jets from any direction

FLEXIBLE AND EASILY EXPANDABLE

For complex communication needs, the series can be expanded with up to 5 modular expansion units of the DAZ 005 type, each allowing for the implementation of up to 6 programmable momentary rocker switches, giving the customer the utmost in customization.

The intercom stations of the DA/DAE series can be expanded with various external components. An optional 25-W booster amplifier installed in the intercom housing enables the use of an external speaker. Based on project or specification needs, you can connect a flashing warning beacon and/or a foot switch. Furthermore, you can either connect a headset, a handset, or a hand-held microphone.

For DA/DAE series

To power an external speaker

Booster Amplifier

For flexible expansion solutions

Expansion Unit

To visually signal an alarm or an incoming call

Warning Beacon

For hands-free communication

Foot Switch

For DAE series only

For greater flexibility

Hand-held Microphone*

For private conversations or high ambient noise areas

Handset*

For safe communication in high ambient noise areas

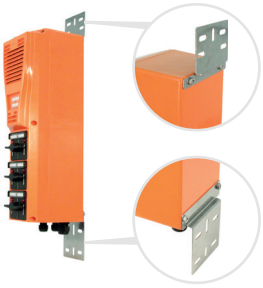
Headset*

* For DAE 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 align 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 bolted 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 clear communication at any time.

1 With Mounting Brackets



2 With Acoustic Hood

3 Free-standing Mounting Post

4 Free-standing Mounting Post with Accessories

Illustrations similar

SERIES OVERVIEW

DA SERIES

6 DAE 705

DA 705	Up to three momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8

4 DA 715

DA 715	One dial keypad and up to two momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8

27 DA 705

9/18/27 DA 705	Up to three membrane keypads with 9 keys each, degree of protection IP66, -10 °C to +50 °C (+14 °F to +122 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8

DAE SERIES WITH CONNECTOR FOR EXTERNAL ACCESSORIES

4 DAE 705

DAE 705	Up to three momentary rocker switches, connector for one hand-held microphone, handset, or headset, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8 and “Accessories for DAE Series”, page 10

2 DAE 715

DAE 715	One dial keypad and up to two momentary rocker switches, connector for one hand-held microphone, handset, or headset, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8 and “Accessories for DAE Series”, page 10

18 DAE 705

9/18/27 DAE 705	Up to three membrane keypads with 9 keys each, connector for one hand-held microphone, handset, or headset, degree of protection IP66, -10 °C to +50 °C (+14 °F to +122 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8 and “Accessories for DAE Series”, page 10

2/9 DAE 715

2/9 DAE 715	One dial keypad, one momentary rocker switch and one membrane keypad with 9 keys, connector for one hand-held microphone, handset, or headset, degree of protection IP66, -10 °C to +50 °C (+14 °F to +122 °F), 42 V DC to 68 V DC
W x H x D	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Weight	Approx. 5 kg (approx. 11.02 lbs)
Accessories	See “Intercom Expansion Units and Accessories DA/DAE Series”, page 8 and “Accessories for DAE Series”, page 10

TECHNICAL DATA

MECHANICAL DATA

Width x height x depth	141 mm x 484 mm x 171 mm (5.55" x 19.06" x 6.73")
Cable glands	2 x M20 (cable diameter: 5 mm to 13 mm (0.20" to 0.51")) 1 x M25 (cable diameter: 8 mm to 17 mm (0.31" to 0.67"))
Weight	Approx. 5 kg (approx. 11.02 lbs)
Color	Pure Orange (RAL 2004)

ELECTRICAL DATA

Operating voltage range	42 V DC to 68 V DC
Quiescent current consumption	25 mA to 35 mA (depending on intercom station type)
Max. current consumption	70 mA
Max. sound pressure level (distance 30 cm (0.98 ft))	115 dB
Frequency range	300 Hz to 7 kHz
Speaker	15 W / 8 Ohms
Relay contact	1 A, 90 V DC, 30 W (resistive load) 0.15 A, 90 V DC (any type of load)

ENVIRONMENTAL REQUIREMENTS AND STANDARDS

Relative humidity (non-condensing)	Max. 95 %
Degree of protection	IP66
Max. ambient noise level	110 dB
EMC	IEC/EN 61000-6-2 IEC/EN 61000-6-4

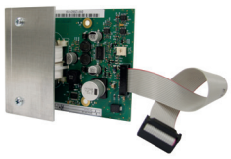
INTERCOM EXPANSION UNITS AND ACCESSORIES DA/DAE SERIES

EXPANSIONS

Type	6 DAZ 005
Description	Expansion unit with three momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 68 V DC, connect up to 5 expansion units to the outdoor intercom station
Type number	301-414-000

Type	12 DAZ 005
Description	Expansion unit with six momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 V DC to 68 V DC, connect up to 5 expansion units to the outdoor intercom station
Type number	301-414-200

ELECTRICAL ACCESSORIES



Type	25 DVA 10
Description	100-V 25-W internal booster amplifier for installation into digital outdoor (harsh environment) intercom stations, operating voltage range 42 V DC to 68 V DC, quiescent current consumption 20 mA, max. current consumption 650 mA, output power 25 W / 400 Ohms
Type number	304-044-100

Type	60 WBL 01
Description	Warning beacon for industrial applications, red dome, degree of protection IP54 (vertical mounting)
Type number	070-000-006 Various lens colors and other types of warning beacons are available upon request.

Type	1 FS 21
Description	One-pedal foot switch, degree of protection IP65
Type number	013-010-002

MECHANICAL ACCESSORIES

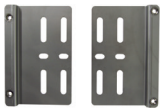
Type	1 SH 05/OG
Description	Weather-proof protective hood made of polyethylene
Type number	070-100-100/OG Other types of protective hoods are available upon request.

Type	2 SSH 16/OG
Description	Acoustic hood made of powder-coated stainless steel sheet (V2A), ambient noise reduction of up to 30 dB
Type number	070-200-200/OG Other types of acoustic hoods are available upon request.

Type	18 DSO 05/OG
Description	Free-standing post for mounting of digital outdoor (harsh environment) intercom stations, cable entry at the bottom
Type number	212-342-100

Description	Mounting pole for installation of additional speaker and warning beacon, Pure Orange (RAL 2004)
Type number	212-341-300/OG

Type	1 AMW 05
Description	Mounting brackets for wall mounting of outdoor intercom stations or used as mounting adaptor to replace the intercom stations of type 3 AV 17, 3 A 32 or third-party devices, incl. fastening material
Type number	212-237-000



Type	1 AMW 05/AXA
Description	Mounting adaptor to replace the intercom stations of type AXA/..A 501, ..AD 501, incl. fastening material
Type number	212-237-100

Type	1 AMW 05/0X3
Description	Mounting adaptor to replace the intercom stations of type DA / DX including the 0x4 series, incl. fastening material
Type number	212-237-200

Type	Mounting plate DA + DAZ/DAH
Description	Mounting plate for wall mounting or for mounting of the following components inside an acoustic hood of type 2 SSH 16: 1 digital intercom station and 1 expansion unit of type DAZ 005 or 1 digital intercom station and 1 handset of type 1 DAH 02
Type number	212-237-300

ACCESSORIES FOR DAE SERIES

Type	3 HMI 05/L15
Description	Hand-held microphone with integrated pre-amplifier and mounting bracket, 3 push buttons
Type number	301-014-300/L15

[!] Operating temperature range of the intercom station changes to -20 °C to +60 °C (-4 °F to +140 °F) when operated with the above

Type	1 DAH 02
Description	Handset with cradle, degree of protection IP66
Type number	301-432-700

[!] * Operating temperature range of the intercom stations changes to -20 °C to +55 °C (-40 °F to +131 °F)

[!] Operating temperature range of the 9/18/27 DAE 705 and 2/9 DAE 715 intercom stations remains unchanged at -10 °C to +50 °C (+14 °F to +122 °F) when operated with the above

Type	1 DHU 003
Description	Headset with flexible microphone, one cord-mounted Push-to-Talk button
Type number	301-434-300

[!] * Operating temperature range of the intercom stations changes to -20 °C to +55 °C (-4 °F to +131 °F)

[!] Operating temperature range of the 9/18/27 DAE 705 and 2/9 DAE 715 intercom stations remains unchanged at -10 °C to +50 °C (+14 °F to +122 °F) when operated with the above

SERIES OVERVIEW CHART

DA SERIES

Type				*	Booster amplifier	Type number
0 DA 715	x		2			301-640-001
0 DA 715/25	x		2		x	301-640-001/25
2 DA 705		1	2			301-640-200
2 DA 705/25		1	2		x	301-640-200/25
2 DA 715	x	1	1			301-640-201
2 DA 715/25	x	1	1		x	301-640-201/25
4 DA 705		2	1			301-640-400
4 DA 705/25		2	1		x	301-640-400/25
4 DA 715	x	2				301-640-401
4 DA 715/25	x	2			x	301-640-401/25
6 DA 705		3				301-640-600
6 DA 705/25		3			x	301-640-600/25
9 DA 705			2	1		301-640-700
9 DA 705/25			2	1	x	301-640-700/25
18 DA 705			1	2		301-640-800
18 DA 705/25			1	2	x	301-640-800/25
27 DA 705				3		301-640-900
27 DA 705/25				3	x	301-640-900/25

* Operating temperature range of the NRO intercom stations changes to -10 °C to +50 °C (-13 °F to +158 °F)

Other types of intercom stations are available upon request.

DAE SERIES

Type				*	Booster amplifier	Type number
0 DAE 715	x		2			301-642-001
0 DAE 715/25	x		2		x	301-642-001/25
2 DAE 705		1	2			301-642-200
2 DAE 705/25		1	2		x	301-642-200/25
2 DAE 715	x	1	1			301-642-201
2 DAE 715/25	x	1	1		x	301-642-201/25
4 DAE 705		2	1			301-642-400
4 DAE 705/25		2	1		x	301-642-400/25
4 DAE 715	x	2				301-642-401
4 DAE 715/25	x	2			x	301-642-401/25
6 DAE 705		3				301-642-600
6 DAE 705/25		3			x	301-642-600/25
9 DAE 705			2	1		301-642-700
9 DAE 705/25			2	1	x	301-642-700/25
18 DAE 705			1	2		301-642-800
18 DAE 705/25			1	2	x	301-642-800/25
27 DAE 705				3		301-642-900
27 DAE 705/25				3	x	301-642-900/25
2/9 DAE 715	x	1		1		301-642-702
2/9 DAE 715/25	x	1		1	x	301-642-702/25

* Operating temperature range of the intercom stations changes to -10 °C to +50 °C (-14 °F to +122 °F)

Other types of intercom stations are available upon request.

© INDUSTRONIC