

## Digital Outdoor Intercom Stations

### DA/DAE 7x5 Series



#### Features and Functions

- Robust design for use in harsh industrial environments
- 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
- One internal potential-free relay contact

The digital weather-proof outdoor (harsh environment) intercom station of the DA/DAE 7x5 series for the INTRON-D *plus* communication and public address system from INDUSTRONIC is 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.



## 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

### Protective Label

To display 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 66

IP (International Protection)

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

2nd Digit - Protection against the ingress of water

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

## Flexible and Easily Expandable

For complex communication needs, the series can be expanded with up to 5 modular expansion housings 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.



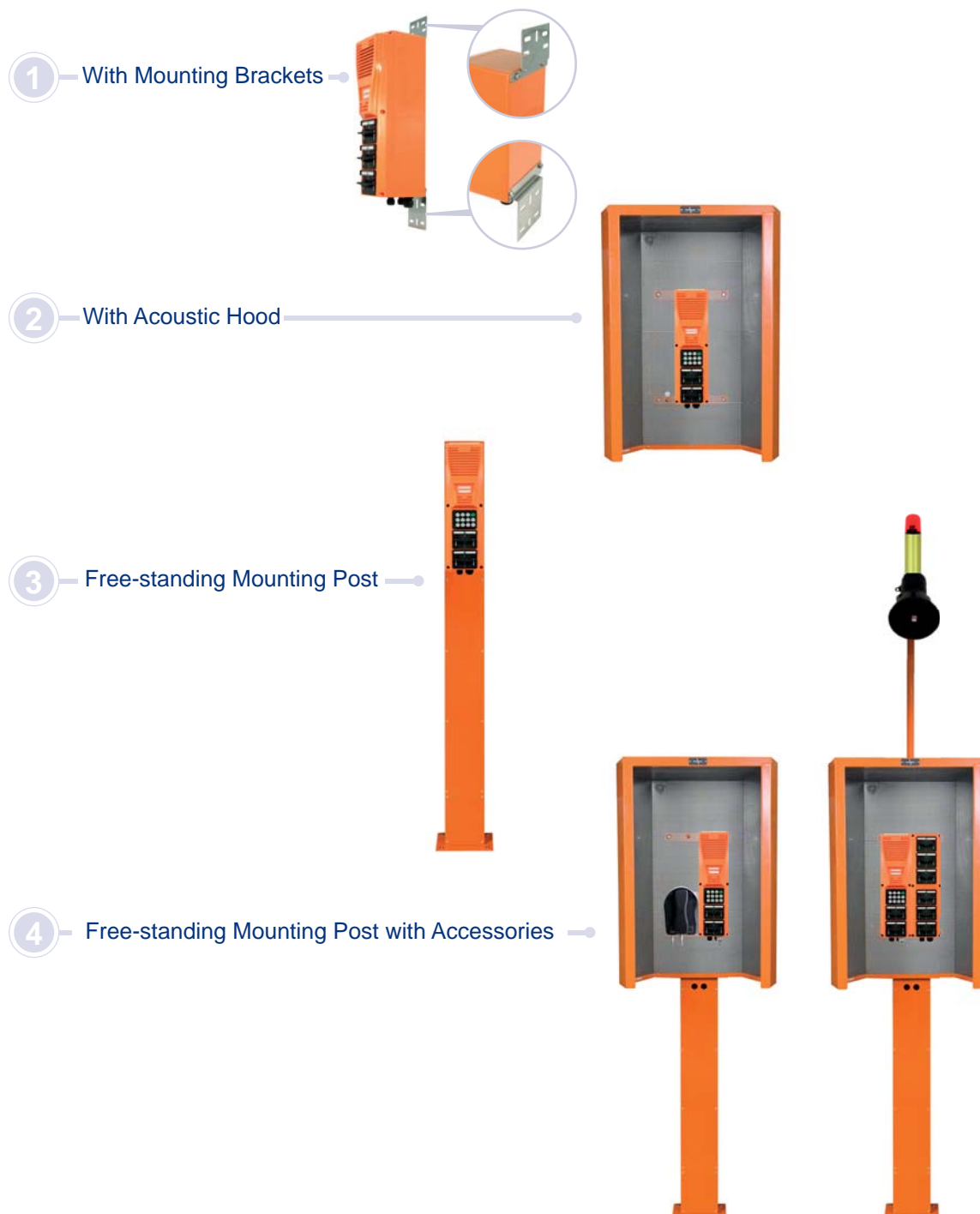
\* For DAE series only

## 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.



Illustrations similar

# Series Overview

## DA Series



6 DA 705

<b>DA 705</b>	Up to three momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8



4 DA 715

<b>DA 715</b>	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 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8



27 DA 705

<b>9/18/27 DA 705</b>	Up to three membrane keypads with 9 keys each, degree of protection IP66, -10 °C to +50 °C (+14 °F to +122 °F), 42 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8

## DAE Series with Connector for External Accessories



4 DAE 705

<b>DAE 705</b>	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 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8 and "Accessories for DAE Series" on page 10



2 DAE 715

<b>DAE 715</b>	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 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8 and "Accessories for DAE Series" on page 10



18 DAE 705

<b>9/18/27 DAE 705</b>	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 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8 and "Accessories for DAE Series" on page 10



2/9 DAE 715

<b>2/9 DAE 715</b>	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 VDC to 68 VDC
<b>W x H x D</b>	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
<b>Weight</b>	Approx. 5 kg (approx. 11 lbs)
<b>Accessories</b>	See "Intercom Expansion Housings and Accessories DA/DAE Series" on page 8 and "Accessories for DAE Series" on page 10

## Technical Data

### Mechanical Data

• Width x height x depth	141 mm x 484 mm x 171 mm (5.6" x 19" x 6.7")
• Cable glands	2 x M20 (cable diameter: 5 mm to 13 mm (0.2" to 0.5")) 1 x M25 (cable diameter: 8 mm to 17 mm (0.3" to 0.7"))
• Weight	Approx. 5 kg (approx. 11 lbs)
• Color	RAL 2004 (Pure Orange)

### Electrical Data

• Operating voltage range	42 VDC to 68 VDC
• 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 (4.7"))	115 dB
• Frequency range	300 Hz to 7,000 Hz
• Speaker	15 W / 8 Ohms
• Relay contact	1 A, 90 VDC, 30 W (resistive load) 0.15 A, 90 VDC (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 Housings and Accessories

## DA/DAE Series

### Expansions



<b>Type</b>	6 DAZ 005
<b>Description</b>	Expansion housing with three momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 VDC to 68 VDC, connect up to 5 expansion housings to the outdoor intercom station
<b>Type number</b>	301-414-000



<b>Type</b>	12 DAZ 005
<b>Description</b>	Expansion housing with six momentary rocker switches, degree of protection IP66, -40 °C to +70 °C (-40 °F to +158 °F), 42 VDC to 68 VDC, connect up to 5 expansion housings to the outdoor intercom station
<b>Type number</b>	301-414-200

### Electrical Accessories



<b>Type</b>	25 DVA 02
<b>Description</b>	100-V 25-W internal booster amplifier for installation into digital outdoor (harsh environment) intercom stations, operating voltage range 42 VDC to 68 VDC, quiescent current consumption 60 mA, max. current consumption 850 mA, output power 25 W / 400 Ohms
<b>Type number</b>	304-041-300



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





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

## Mechanical Accessories



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






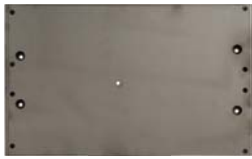
<b>Type</b>	2 SSH 15/OG
<b>Description</b>	Acoustic hood made of powder-coated sheet steel, ambient noise reduction of up to 30 dB
<b>Type number</b>	070-200-100/OG Other types of acoustic hoods are available upon request.




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





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

	<b>Type</b>	1 AMW 05
	<b>Description</b>	Mounting brackets for wall mounting of digital 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
	<b>Type number</b>	212-237-000
	<b>Type</b>	1 AMW 05/AXA
	<b>Description</b>	Mounting adaptor to replace the intercom stations of type AXA/..A 501, ..AD 501, incl. fastening material
	<b>Type</b>	1 AMW 05/0X3
	<b>Description</b>	Mounting adaptor to replace the intercom stations of type DA / DX including the 0x4 series, incl. fastening material
	<b>Type</b>	Mounting plate DA + DAZ/DAH
	<b>Description</b>	Mounting plate for wall mounting or for mounting of the following components inside an acoustic hood of type 2 SSH 15, incl. fastening material: <ul style="list-style-type: none"> <li>• 1 digital intercom station and 1 expansion housing of type DAZ 005</li> <li>or</li> <li>• 1 digital intercom station and 1 handset of type 1 DAH 02</li> </ul>
	<b>Type number</b>	212-237-300

## Accessories for DAE Series



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

	<b>Type</b>	1 DAH 02
	<b>Description</b>	Handset with cradle, degree of protection IP66
	<b>Type number</b>	301-432-700
	<b>I</b>	Operating temperature range of the DAE series changes to -20 °C to +55 °C (-4 °F to +131 °F) when operated with the above
	<b>I</b>	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

	<b>Type</b>	1 DHU 003
	<b>Description</b>	Headset with flexible microphone, one cord-mounted Push-to-Talk button
	<b>Type number</b>	301-434-300
	<b>I</b>	Operating temperature range of the DAE series changes to -20 °C to +55 °C (-4 °F to +131 °F) when operated with the above
	<b>I</b>	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 DAE intercom stations changes to -10 °C to +50 °C (+14 °F to +122 °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 DAE intercom stations changes to -10 °C to +50 °C (+14 °F to +122 °F)  
Other types of intercom stations are available upon request.

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