

Installation Sheet for the IN703DAL0640000 Gateway

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Intesis DALI-2 Protocol Translator with Serial and IP Support - 1 DALI Channel

Order code: IN703DAL0640000

Owner's record

Find the serial number on the silver label on the right side of the gateway. We recommend you write it in the space below for sales or technical assistance:

SN:

Safety Instructions



Follow these safety and installation instructions carefully. Improper work may lead to serious harm to your health and may seriously damage this Intesis gateway and/or any other installation equipment.

Only accredited technical personnel, following all these safety instructions and in accordance with the country's legislation for the installation of electric equipment, are authorized to install this Intesis gateway.

Install this Intesis gateway indoors, in a restricted access location, and sheltered from direct solar radiation, water, high relative humidity, or dust.

Mount this Intesis gateway, preferably, on a DIN rail inside a grounded metallic cabinet following the instructions below.

In the case of wall mounting, firmly fix this Intesis gateway on a non-vibrating surface following the instructions below.

Disconnect any wires from its power source before manipulating and connecting them to this Intesis

Use a SELV-rated NEC Class 2 or Limited Power Source (LPS) power supply.

Use a circuit breaker before the power supply. Rating: 250 V, 6 $\,\mathrm{A.}$

Respect the expected polarity of power and communication cables when wiring this gateway.

Supply the correct voltage to power this Intesis gateway. The admitted range voltage is detailed in the technical specifications table.



Risk of explosion if the battery is replaced by an incorrect type. Only authorized installers can replace batteries. Dispose of used batteries according to the



Connect this Intesis gateway only to networks without routing to the outside plant. All communication ports are considered indoor only.

This Intesis gateway is designed for installation in an enclosure. To avoid electrostatic discharges to the unit in environments with static levels above 4 kV, precautions should be taken when the device is mounted outside an enclosure. When working in an enclosure (ex. making adjustments, setting switches etc.) typical anti-static precautions should be observed before touching the unit.

Safety instructions in other languages can be found at: https://intesis.com/docs/manuals/v6-safety

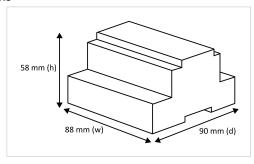
Configuration

Connect the gateway to a computer using the USB Mini-B type to USB Type A cable (included).

Configure the gateway using Intesis MAPS. Download the latest version of the configuration tool at www.intesis.com/products/intesis-maps.

For further information on the configuration, refer to the Configuration Guide.

Dimensions





Leave enough clear space to wire the gateway easily and for the subsequent manipulation of elements such as connectors, DIP switches, etc.

Mounting

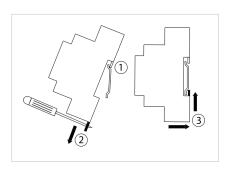


Mount this gateway over a DIN rail, preferably inside a grounded metallic industrial cabinet.

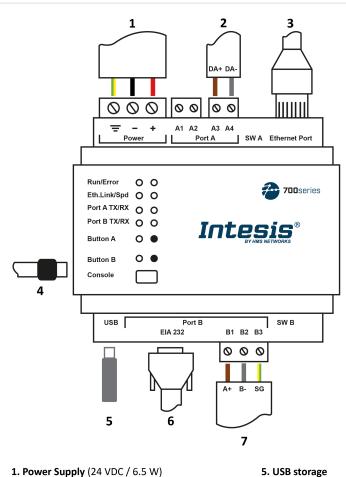
- Fit the gateway's top-side clips in the upper edge of the DIN rail. 1.
- 2. Press the low side of the gateway gently to lock it in the DIN rail.
- Make sure the gateway is firmly fixed.



For some DIN rails, to complete step 2, you may need a small screwdriver or similar to pull the bottom clip down.



Connections



- 2. DALI Channel A
- 3. Ethernet
- 4. Console Port USB Mini-B type

- 5. USB storage
- 6. Port B EIA-232
- 7. Port B EIA-485



Power supply: Use a SELV-rated NEC class 2 or Limited Power Source (LPS) power supply. Connect the gateway's ground terminal (=) to the installation grounding.

Power rating: 24 VDC ±10%, 6.5 W.

Communication ports:

PORT	USAGE	WIRING			
Port A	DALI bus	A1: Not used	A2: Not used	A3 : DA+	A4 : DA-
Ethernet	As a TCP/IP port: BACnet/IP and Modbus TCP As a console port: Connection to a PC for configuration purposes	Ethernet cable (CATS or higher) When using the building LAN, contact the network administrator and make sure traffic is allowed. When starting up the gateway for the first time, DHCP will be enabled for 30 seconds. After that time, the default IP 192.168.100.246 will be set.			
Port B EIA-485 ¹	BACnet MS/TP and Modbus RTU	B1 : A+	B2 : B-	В3:	SG
Port B EIA-232	Modbus RTU	DB9 connector Only lines RX, TX, and Ground (corresponding to pins 2, 3, and 5) are used			
Console	Connection to a PC for configuration purposes	USB Mini-B type			

 $\pmb{\mathsf{USB}}{:} \; \mathsf{USB} \; \mathsf{Type} \; \mathsf{A} \; \mathsf{2.0} \; \mathsf{connector} \; \mathsf{for} \; \mathsf{saving} \; \mathsf{logs} \; \mathsf{into} \; \mathsf{a} \; \mathsf{USB} \; \mathsf{flash} \; \mathsf{drive}. \; \mathsf{This} \; \mathsf{USB} \; \mathsf{connector} \; \mathsf{does} \; \mathsf{not} \; \mathsf{support} \; \mathsf{HDD} \; \mathsf{devices}.$



 1 Standard EIA-485 bus requirements: maximum distance of 1200 meters (0.75 miles); up to 32 devices connected; a 120 Ω resistor at each end of the bus is needed (configure the bus biasing and termination resistor for Port EIA-485 with the DIP switch SWA. See the Technical Specifications table).



Scan here for further configuration details

Disposal and Recycling



This product contains electronic components and must be properly disposed of according to local laws and regulations. For further information, refer to: https://www.intesis.com/weee-regulation

For further information on the installation, connection, and configuration of this gateway, refer to

Technical Specifications

	Material: Plastic, type PC (UL 94 V-0)			
Housing	Color: Light grey (RAL 7035) Net dimensions (dywyh): 90 v 88 v 58 mm / 3 54 v 3 46 v 2 28"			
	Net dimensions (dxwxh): 90 x 88 x 58 mm / 3.54 x 3.46 x 2.28"			
Mounting	DIN rail EN 60715 TH35			
	Cross-section/gauge per terminal: One core: 0.2 2.5 mm² (24 11 AWG)			
Natinin n	Two cores: 0.2 1.5 mm² (24 15 AWG)			
Wiring	Three cores: Not permitted			
	Use solid wires or stranded wires (twiste	ad or with formula)		
	1 x Green pluggable terminal block (three poles)			
	24 VDC ±10%, 6.5 W			
Power supply				
	Connect the ground terminal (=) to the installation grounding			
	1 x Green pluggable terminal block (two poles: A1, A2): Not used			
	1 x Orange pluggable terminal block (two poles) for DALI:			
	A3: DA+			
Port A	A4: DA-			
TOICA	DALI guaranteed current: 230 mA			
	DALI maximum current: 250 mA			
	Voltage rating: 16 VDC			
	1500 VDC isolation from other ports			
Ethernet	1 x Ethernet RJ45 10/100BASE-T			
	1 x Green pluggable terminal block (three poles):			
	B1: A+			
Port B EIA-485	B2: B- B3: SG			
	65. 30			
	1500 VDC isolation from other ports (except Port B EIA-232)			
Port B EIA-232	1 x DB9 male connector			
	1500 VDC isolation from other ports (except Port B EIA-485)			
	USB A type 2.0 connector			
USB port	Flash drives only (HDD not supported) Power consumption limited to 150 mA			
Console port	·			
Console port	Type: Manganese Dioxide Lithium button battery			
Battery	Size: 20 mm x 3.2 mm (0.79" x 0.13")			
,	Capacity: 3 V, 255 mA			
	2 x Push buttons			
Buttons	Button A			
	Button B			
	10 x LEDs for gateway and			
.==	communication status	2 x Port B TX/RX		
LED indicators	2 x Run (Power/Error) 2 x Ethernet Link/Speed	1 x Button A indicator 1 x Button B indicator		
	2 x Port A TX/RX	1 x button b maleator		
	2 x DIP switch blocks for EIA-485 serial port configuration:			
	DIP switch A (SW A): Not used			
	DIP switch B (SW B):			
DIP switches	DIP switches SW A / SW B Position 1: On: 120Ω termination active Off: 120Ω termination inactive Position 2 and 3: On: Polarization active			
SW A / SW B				
	Off: Polarization inactive			
Operational	Temperature: -10 60°C / 14 140°F			
conditions	Humidity: 5 95% (No condensation)			