

# DALI-2 to Modbus TCP & RTU Server Application with 1 DALI channel

Item number: IN703DAL0640000

Integrate any DALI/DALI-2 driver and DALI-2 light sensor or occupancy sensor with a Modbus BMS or any Modbus TCP or Modbus RTU controller. This integration aims to make DALI devices and their data and resources accessible from a Modbus-based control system or device as if they were a part of the Modbus system and vice versa.

*DALI to Modbus TCP & RTU - 1 DALI channel*

## Features and benefits

- ✓ **Modbus support**  
The gateway supports both Modbus RTU and Modbus TCP protocols.
- ✓ **DALI support**  
The gateway is DALI-2 certified and supports DALI/DALI-2 drivers and DALI-2 input devices: Push buttons, absolute input devices, and occupancy and light sensors.
- ✓ **Local control options**  
Occupancy and light sensors, push buttons, and absolute inputs can be locally controlled from the gateway. The DALI standard device type for Energy and Diagnostic data has also been implemented.
- ✓ **Max 64 drivers/ballasts + 64 DALI-2 input devices**  
Supports up to 64 drivers/ballasts + 64 DALI-2 input devices (sensors/push buttons/absolute inputs).
- ✓ **Up to five concurrent Modbus TCP clients supported**  
The gateway supports up to five simultaneous Modbus TCP clients.
- ✓ **Easy DALI commissioning/integration w/Intesis MAPS**  
Integration and DALI commissioning processes are managed via the Intesis MAPS configuration tool. Templates can be imported and reused as often as needed, significantly reducing commissioning time.
- ✓ **Color control**  
RGB and tunable white controls are available in Intesis MAPS, to cover the demand for Human Centric Lighting.
- ✓ **Signals and power**  
A DALI power supply is integrated into the gateway, so no external DALI power supply is required. Up to 10,000 signals can be defined in total, with a guaranteed output current of 230 mA.

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## Identification and Status

Product ID	IN703DAL0640000_MBS_DAL
Country of Origin	Spain
HS Code	8517620000
Export Control Classification Number (ECCN)	EAR99

## General

Net Width (mm)	88
Net Height (mm)	56
Net Depth (mm)	90
Net Weight (g)	194
Packed Width (mm)	127
Packed Height (mm)	86
Packed Depth (mm)	140
Packed Weight (g)	356
Operating Temperature °C Min	-10
Operating Temperature °C Max	60
Input Voltage (V)	24 VDC ±10%, 6.5 W.
Power Connector	3-pole
Capacity	1 DALI channel: Up to 64 drivers/ballasts and 64 DALI-2 input devices (sensors, push buttons or absolute inputs). Up to 10000 signals in total.
Installation Conditions	This gateway is designed to be mounted inside an enclosure. If the unit is mounted outside an enclosure, precautions should always be taken to prevent electrostatic discharge to the unit. When working inside an enclosure (e.g., making adjustments, setting switches, etc.), typical anti-static precautions should always be followed before touching the unit.
Content of Delivery	Intesis Gateway, Installation Manual, USB Configuration cable.

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## General

<b>Not Included (in delivery)</b>	Power supply not included.
<b>Mounting</b>	DIN rail mount (bracket included), Wall mount
<b>Housing Materials</b>	Plastic
<b>Warranty (years)</b>	3 years
<b>Packaging Material</b>	Cardboard

## Physical Features

<b>Connectors / Input / Output</b>	Power supply, DALI, Ethernet, Console port USB Mini-B type, USB storage, EIA-232, EIA-485.
<b>DIP &amp; Rotary Switches</b>	EIA-485 serial port configuration.
<b>Battery Description</b>	Manganese Dioxide Lithium button battery.

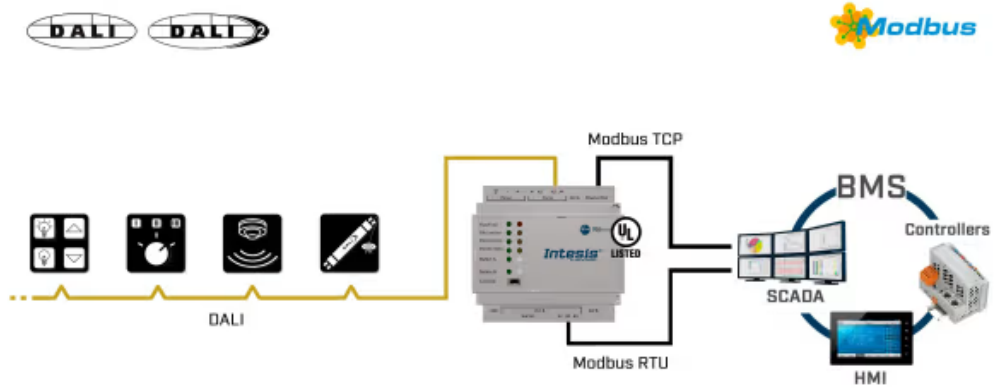
## Certifications and Standards

<b>ETIM Classification</b>	EC001604
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## Use Case



Integration example.



Use Intesis MAPS to change the protocol: DALI, Modbus or Bacnet