

PRODUCT INFORMATION DASHBOARD

Honeywell TA3840C

Marine Communication Rack

Honeywell TA3840C centralizes marine tank-gauging measurements and delivers calculated level, volume, pressure and temperature data to shipboard monitoring systems.

PRODUCT ROLE

Up to 64 cargo tanks

SYSTEM

Honeywell marine fixed tank gauging

INTERFACE

Up to 96 auxiliary instrument inputs

SERVICE FOCUS

12U and 21U rack versions

Exact-model highlights

- Up to 64 cargo tanks
- Up to 96 auxiliary instrument inputs
- EMS and Modbus RTU output
- 12U and 21U rack versions

Release questions

IDENTITY

Is the complete TA3840C code confirmed?

INTERFACE

Do field signals and companion equipment match?

SETTINGS

Are installed parameters and mappings preserved?

ACCEPTANCE

Have normal, fault and recovery states been tested?

Technical data

Rack format	Standard 19-inch rack
Rack sizes	12U and 21U
Cargo-tank capacity	Maximum 64 tanks
Other instrument inputs	Up to 96
Analog input option	One or two 4-20 mA boards; 48 channels
Multifunction I/O option	8 x 4-20 mA, 24 binary outputs, 16 binary inputs
Serial channels	4
Operating temperature	5 to +70 degrees C
Communication outputs	EMS; Modbus RTU
On/off output capacity	Up to 48 outputs; 250 VAC / 1250 VA relay contacts

Application safeguards

SAFEGUARD 1

Match the complete TA3840C identity and installed rack height before planning replacement work.

SAFEGUARD 2

Back up channel assignments, serial settings and tank-calculation configuration before isolation.

SAFEGUARD 3

Identify every connected sensor, analog board and multifunction I/O board against the ship drawing.

SAFEGUARD 4

Isolate rack power and confirm absence of hazardous energy before accessing internal boards.

Common applications

Cargo tank monitoring

Combines ullage, level, pressure and temperature measurements for cargo visibility.

Ballast management

Processes ballast, draft, trim and heel signals used to monitor vessel balance.

Loading-computer integration

Provides calculated tank data to connected shipboard loading and gauging software.

Control-room indication

Presents measurement and alarm information locally on the rack display.

Interface checklist

- Sensor acquisition: Marine radar, analog transmitters, pressure, temperature, trim and heel signals
- I/O expansion: Analog input boards or multifunction I/O boards in the two available slots
- System output: EMS and Modbus RTU data for gauging software and loading systems
- Operator access: Function keyboard and LCD display for measurement and alarm data

Installation snapshot

STEP 1

Capture the complete TA3840C nameplate, rack size and cabinet position.

STEP 2

Back up the active configuration and print the channel and communication maps.

STEP 3

Isolate rack power and verify absence of hazardous energy at the supply board.

STEP 4

Label serial, analog, binary, sensor and relay connections before disconnection.

Model-specific FAQ

Q1 What measurement role does Honeywell TA3840C perform?

TA3840C centralizes fixed marine gauging signals and calculates level, volume, pressure, temperature, trim and heel data for connected ship systems.

Q2 How many cargo tanks can Honeywell TA3840C handle?

The communication rack supports measurement signals from a maximum of 64 cargo tanks.

Q3 How many additional instrument inputs can Honeywell TA3840C accept?

Its stated capacity includes up to 96 inputs from other instruments.

Q4 Which rack sizes are available for Honeywell TA3840C?

TA3840C is offered in standard 19-inch rack construction with 12U and 21U size options.

Q5 Which data protocols are provided by Honeywell TA3840C?

The listed communication outputs are EMS and Modbus RTU.

Q6 What board options fit the two Honeywell TA3840C expansion slots?

The slots accept one or two 4-20 mA input boards with 48 channels, or multifunction I/O boards providing analog and binary I/O.

Q7 What operating-temperature range applies to Honeywell TA3840C?

The stated operating range is 5 to +70 degrees C.

Q8 What should be tested after Honeywell TA3840C configuration is restored?

Prove representative sensor channels, tank calculations, local alarm display, EMS or Modbus RTU communication, and the assigned on/off outputs.

Product precautions

1

Match the complete TA3840C identity and installed rack height before planning replacement work.

2

Back up channel assignments, serial settings and tank-calculation configuration before isolation.

3

Identify every connected sensor, analog board and multifunction I/O board against the ship drawing.

4

Isolate rack power and confirm absence of hazardous energy before accessing internal boards.

5

Use grounded ESD controls when handling the central processing or interface assemblies.

6

Check EMS and Modbus RTU wiring, polarity, shielding and termination before energization.

7

Commission tank channels with known input conditions and compare displayed values with the loading system.

8

Verify alarms, serial communication, on/off outputs and final vessel-system status before handover.

Related products

Verified related products on ApterPower

Honeywell SPS5710 51199929-100

Honeywell portfolio reference

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Honeywell SPS5710-2-LF

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Share the exact TA3840C nameplate, application and required quantity for a model-specific quotation.

