



Certificate No. 03-001930/031628

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

ALARM UNITS

ITDAC-14-2/ ITDAC-14A-2/ITDAC-14B

MANUFACTURER:

INELTEH d.o.o.

Ljubljanska cesta 7
51000 Rijeka
CROATIA

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS RULES FOR THE CLASSIFICATION OF SHIPS, Part 12 – Electrical equipment
CRS RULES FOR THE CLASSIFICATION OF SHIPS, Part 13 – Automation

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: 2026-07-22

Place and date: Split, 2023-01-10 Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

One time factory programmable controller for alarm units.

VERSION	ITDAC-14-2	ITDAC-14A-2	ITDAC-14B
Binary inputs	10	10	-
Analogue inputs	3	-	8
Outputs (LEDs, relays)	<u>LEDs:</u> 13 + power + PWF	<u>LEDs:</u> 10 + power + PWF	<u>LEDs:</u> 8 + power + PWF + line failure + alarm hold
Common alarm relay output (3A/250V)	1, also active for PWF	1, also active for PWF	1
Group alarm relays	-	4	-
Power failure alarm	yes	yes+separate output relay	yes+separate output relay
Internal NiCd battery for PWF	yes	yes	yes
Sensor line failure	-	-	yes+separate output relay
Dimmer	yes	yes	-
Built-in buzzer	yes	yes	yes
Alarm test	yes	yes	yes
Lamp test	yes	yes	yes
Alarm accept	Double function button	Double function button	Separate for visual and audible
Power supply	24V +30% -20% D.C./A.C.	24V +30% -20% D.C./A.C.	24V +30% -20% D.C./A.C.
Consumption	0.3A max	0.4A max	0.3A max
Ambient temperature	-25 - +70°C	-25 - +70°C	-25 - +70°C
Firmware	v1.00	v1.00 & v1.10	v2.05

APPLICATION / LIMITATIONS:

The system is approved for use on ships according to the CRS Rules for the classification of ships.

TYPE APPROVAL DOCUMENTATION:

INELTEH, Type approval documentation – CRS file no. 13.03.01/5

INELTEH, Type approval testing No. 0598001 document - witnessed by the LR surveyor

Vibration test:

- SIQ, Test report number: T 221-012/98
- BRODARSKI INSTITUT, Test report number: YQ01-02-314

Environmental test:

- KONČAR INSTITUTE, Test report number: 51-14221
- INELTEH, Test report number: CT-Cold-1403-001 - witnessed by the BV surveyor

EMC test:

- KONČAR INSTITUTE, Test report number: 21583EMC21033, 21583EMC21034, 21580181102
- SIQ, Test report number: T 231-0657/98

Safe compass distance:

- KONČAR INSTITUTE, Test report number: 21583SCD21033, 21583SCD21034

MARKING OF PRODUCT:

The Manufacturer and Type Designation of the product, serial number and safe distance to magnetic compass.

CONDITIONS FOR CERTIFICATION:

All hardware or software changes are to be forwarded to CRS for evaluation and approval.