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Weather-proof IP66 analogue **SMART** industrial telephone, shock-proof **IK10** with auto fault-detection & audio test model **TEL456T / TEL456TV**

HARDYPHONE®



AVAILABLE COLORS

YELLOW	GREY	BLACK	RED	ORANGE
RAL1023	RAL7030	RAL9005	RAL3020	RAL2003

The "456" series of **HARDYPHONE®** is the result of over **25 years of experience** in the design and production of specialized communication terminals, designed to be installed in the most difficult areas of the world: **Off-Shore, Mining, Naval, Steelworks, Railways, Tunnels.**

MTBF:>180.000 hours
MTTR: 3 minutes
IP-rating:IP66 [EN 60529]
Impacts resistance: IK10 [EN 60068]
Max relative humidity: 98% [EN 60068]
Operating temperatures: -40°C ÷ +70°C
Body: ALUMINUM 5mm
Handset: POLYCARBONATE
Handset's cord: stainless steel INOX, resistance 200kg
Dimensions: 190x240x117 mm
Weight: 3,6 kg
Cables entrances: 2 holes M20 (1 cablegland + 1 plug)

HARDYPHONE® is a **SMART** analogue industrial telephone, with a very strong body made of aluminum (thickness 5mm) vandal resistant and shock proof **IK10**, weather-proof **IP66**. Designed for **20 years life** in heavy industrial areas. **HARDYPHONE®** series is **entirely made of aluminum**, with a polycarbonate handset with a stainless steel cord capable of supporting a **pulling force of over 200kg**. Even the keyboard, with **single aluminum keys**, offers characteristics of high strength and impact resistance.

MAIN CHARACTERISTICS

Powered by telephone line:12÷60 Vdc
Ringing voltage: 25÷100 V_{EFF}
Dialling: DTMF
Electronic Bell: up to 95dB@1m, adjustable
Hook: magnetic, high protection
Programmable: 100% programmable remotely by DTMF

EXTENDED KEYPAD

15 keys keypad, with single aluminum buttons, with double function activated by the button Fn:

- 12 buttons (*, #, 0,1...9)
- R (flash), RP (last number redial)
- Pre-memorized call buttons (M1÷M8)
- Volume adjustment V+, V-
- Hook key (hands-free mode on TEL457TV)
- Door opening button, on DTMF password
- Red LED indicating "on line" or "incoming call"
- Blue LED indicating good state of service
- Noise cancelling circuit

OPTIONAL FUNCTIONS

- External Head-set jack
- Local audio test and Fault-Detection
- Hands-Free Full-Duplex (TEL457TV only)
- Booster amplifier for external loudspeaker (supplied@12Vcc)
- Auxiliary hook contact
- Jack for external headset with microphone
- Call repeating relay for external repeaters
- Remote command relay on password DTMF
- Remote diagnostic software TelDia®
- Fault Alarm Relay FAR-01 (needs +12/24Vdc)

AFD - Automatic Fault-detection

AFD is the function of **automatic periodical test** of all the functions and main devices of the telephone, including **audio test of microphone and earpiece**. The state of service is indicated by the flashing **blue LED**. A Fault-Relay module (model FAR-01) is available on demand.

MISSING/FAULTY HANDSET

The hands-free version (TEL456TV) still operates also when the handset is missing or out of service.

ORDER CODES

TEL456T 15 double function keys
TEL456TV 15 double function keys + Hands-Free
TEL456M0 Without keypad
Option JK Jack for headset
Option R Internal Relay for external repeaters