



Powering Business Worldwide



ExResistTel Telephone

For Hazardous and Corrosive Areas

UL Approved Nonincendive

Rated Class 1, Div. 2 Groups A, B, C & D

FHF's new ExResistTel Industrial Telephone for Division 2 has been developed specifically for the harsh environments found in the process industries – for onshore chemical and petro-chemical plants, offshore platforms, in mills and in harbors. The telephone can handle the large temperature differences found outdoors, high humidity, exposure to sea water and dust, as well as heavy mechanical wear and tear. It is simply the most rugged and reliable telephone available in the world today.



The ExResistTel's features and benefits include:

- ▶ Robust glass fiber reinforced polymer housing with ½"NPT conduit entries is resistant to acids, sea water, alkali, moisture and grease and requires no additional enclosure for its Type 4X / IP66 environmental ratings.
- ▶ Completely programmable with an alphanumeric display and a 21-piece stainless steel (V4A / 316) keypad designed to be used with gloves.
- ▶ Fully encapsulated electronics provide unparalleled resistance to chemicals and moisture in harsh environments.
- ▶ Handsfree / Speakerphone function allows phone to be used in a group setting.
- ▶ 316 SS keypad, faceplate and trim offer superior corrosion and impact resistance.
- ▶ Armored 316 SS cord stands up to rough treatment.
- ▶ Hermetically sealed non-contact hook sensing switch improves system reliability.
- ▶ Adjustable handset holding clips secure the phone in marine applications and areas of high vibration.
- ▶ Captive cover screws prevent loss during installation.
- ▶ Ventilation / Pressure balancing plug eliminates the possibility of moisture collecting inside the enclosure.
- ▶ Integrated relays (AC + DC)

Telephoning offshore

The housing is made of impact-resistant and shockproof glass fibre-reinforced polyester and is resistant to acids, sea water, alkalis, moisture and grease.



ExResistTel Specifications

Electrical Specifications

Hazardous Area Rating	Class1, Division 2 Groups A, B, C, D T6
Approval	UL, Nonincendive
Line Voltage	24 VDC - 56.5 VDC
Line Current	15 mA - 110 mA
REN	1,8
Ringing AC	30 VAC - 150 VAC (at 15.3 - 68 Hz ringing frequency)
Ringing Impedance	Greater than 5.0 K Ω @ G2 VAC & 15.3 - 68 Hz
Inquiry Key	Flash function adjustable from 40-399 ms
Dialing Procedure	PD or DTMF operation set in menu DTMF operation according to ITU-T rec. Q.23 PD operation where the pulse/pause ratio can be set to either 1:5:1 or 2:1
Relay	5 - 60 VDC - 3 A, 24 - 240 VAC - 4 A
Screw Terminals	Up to 12 AWG (4 mm) rigid or 14 AWG (2.5 mm) flexible (wire gauge)

Housing

Material	Glass fiber-reinforced polyester
Dimensions	Approx. 10.5" x 9" x 5.3" (260 x 228 x 135 mm)
Weight	13 lb. (5.9 kg)
Display	2 line alphanumeric display visible area approx. 3" x 1"
Keypad	316 SS Metal keypad with ice protection 21 keys with embedded lettering
Wiring Access	1/2" NPT conduit hub

Receiver

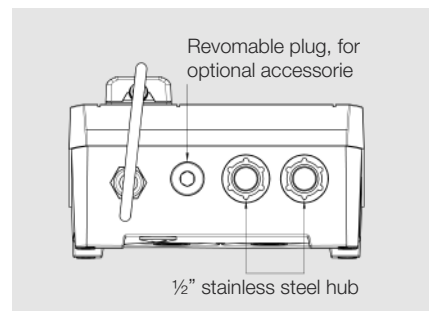
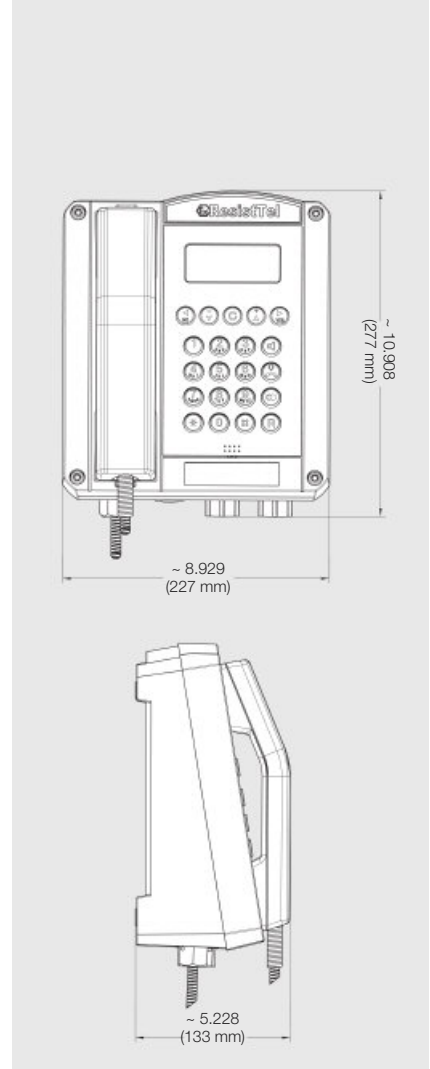
Stabilizer bracket	Integrated and adjustable
Handset cord	Stainless steel armored handset cord
Receiver inset	Dynamic receiver inset with leakage field spool for inductive coupling of hearing aids
Mouthpiece	Electret-foil microphone
Noise Suppression	Greater than 3 dB

Environmental Conditions

Enclosure Protection	Type 4X - IP 66 acc. to EN 60529
Impact Protection	IK 09 acc. to IEC 50598
Operating Temperature	-4 °F to 104 °F (-20 °C to + 40 °C)

Additional Characteristics

Optical Call Signaling	Display shows a bell
Ringing sound pressure level	Approx 90 dB (A) at 1m distance
Ringing melodies	10 melodies selectable
Handsfree operation	Max. 68 dB (A) at 1m distance
Amplified listening in receiver	Receiver volume can be boosted in 5 steps from 0 +/- 12 dB (A)
Menus	Available in several languages, selectable
Telephone Directory	Max. 50 entries (names and phone numbers)



* The complete product number (P/N) can be found by combining the P/N and the colour code of the cap colours.

transp.	01
red	02
yellow	03
green	04
blue	05

Order information

Type	Description	Part no.
ExResistTel	UL Telephone, black	FHF112 861 01 110
ExResistTel	UL Telephone, red	FHF112 861 01 112
ExResistTel ZB	UL Telephone, black	FHF112 861 02 110
ExResistTel ZB	UL Telephone, red	FHF112 861 02 112
Accessories	Additional earpiece	FHF112 861 03
Accessories	Additional headset	FHF112 861 04

Type	Description	Part no.
Accessories	Secondary sounder	FHF211 842 06
Accessories	Protection hood, hot galvanized	FHF118 901 01
Accessories	Protection hood, stainless steel	FHF118 901 11
Accessories	TWIN Sounder	FHF118 833 .. *
Accessories	Ex TWIN LED	FHF118 834 .. *

Note: Accessories are not UL approved

Subject to change without notice · T1-US-05/15