

# Ex-ResistTel Telephone

**For Hazardous and Corrosive Areas**

**UL Approved Nonincendive**

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

FHF's new Ex-ResistTel Industrial Telephone for Division 2 has been developed specifically for the harsh environments found in the process industries – for on-shore chemical and petrochemical plants, off-shore 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 Ex-ResistTel'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.
- ExResistTel ZB is designed for telephone exchange operation and is similar to the ExResistTel, except without the keypad and display.



## Telephoning off-shore

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



# Ex-ResistTel Specifications

## Electrical Specifications

Hazardous Area Rating	Class1, Division 2 Groups A, B, C,
Approval	UL, Nonincendive
Line Voltage	24 VDC-66 VDC
Line Current	15 mA-100mA
Ringing AC	24VAC-90VAC (at 21-54 Hz ringing frequency) 30VAC-90VAC (at 16.6-54 Hz ringing frequency)
Ringing Impedance	Greater than 6.0 kW @ 25 Hz & 24-90 VAC Greater than 4.0 kW @ 50 Hz & 24-90 VAC
Inquiry Key	Flash function adjustable from 40-99 ms
Dialing Procedure	PD or DTMF operation set in menu DTMF operation according to CCITT rec. Q.23 PD operation where the pulse/pause ratio can be set to either 1:5:1 or 2:1
W-Conductor	Connection for external secondary sounder
Screw Terminals	Up to 4mm rigid or 2.5mm flexible (wire gauge)

## Housing

Material	Glass fiber-reinforced polyester
Dimensions	Approx. 10.5" x 9" x 5.3"
Weight	12 lb. (5.5 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

## Receiver

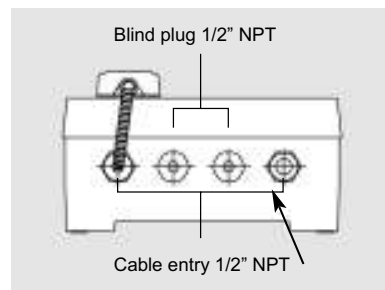
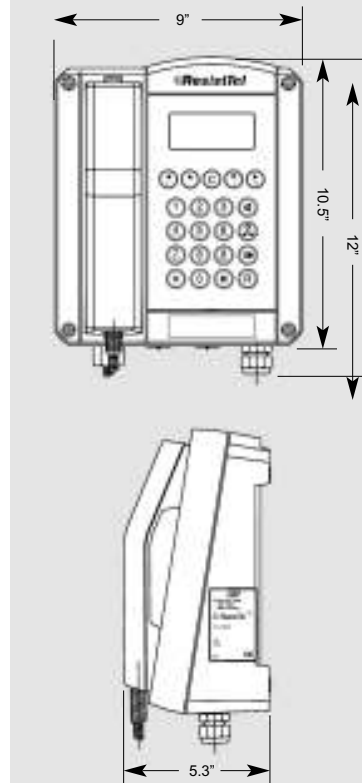
Stabilizer bracket	Integrated and adjustable
Handset cord	Stainless steel (V4A) armored handset cord
Receiver inset	Dynamic receiver inset with leakage field spool for inductive coupling of hearing aids
Mouthpiece	Electret-foil microphone
Noise Suppression	Greater than 3 dB

## Environmental Conditions

Enclosure Protection	Type 4X - IP 66 acc. to EN 60529
Impact Protection	IK 09 acc. to EN 50102
Operating Temperature	-40°C to + 40°C (w/o display)
Storage Temperature	-25°C to + 70°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
Listening by loudspeaker	Max. 68 dB (A) at 1m distance
Handsfree operation	Max. 68 dB (A) at 1m distance
Amplified listening in receiver	Receiver volume can be boosted in 7 steps from 0 +/- 12 dB (A)
Menus	Available in several languages, selectable
Telephone Directory	Max. 50 entries (names and phone numbers)



## Ordering Information

Type	Description	Part No.	Type	Description	Part No.
Ex-ResistTel	UL Telephone	11286101110	Accessories	Secondary sounder	211 842 06
Ex-ResistTel	UL Telephone ZB, w/o keypad & display	11286102110	Accessories	Protection hood, Hot Galvanized	118 901 01
Accessories	Additional earpiece	112 861 03	Accessories	Protection hood, Stainless Steel	118 901 11
Accessories	Additional headset	112 861 04	Accessories	TWIN Sounder	118 833 ..*
Accessories	Loudspeaker set	112 861 05	*Cap colours: transparent 01, red 02, yellow 03, green 04, blue 05		

Note: Accessories are not UL approved at the time of printing



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