



GSM XP HHDF (Handheld DF) Technical Specification

GSM-XP-HHDF Overview

The GSM-XP-HHDF, a complementary product to the GSM-XP-DBDF, significantly enhances GSM-XP operational effectiveness when locating targets.



A highly unique design the GSM-XP-HHDF dramatically enhances the ability of the user to operate in new scenarios with a level of covertness previously considered not possible. The benefits to the user are:

- operate within buildings
- direction find targets to within a few metres
- small in size can be worn within a shirt pocket
- audio and visual target indication
- ability to change RF channel in the field
- minimise operational time within the danger zone
- requires only standard AA batteries

1.1. GSM-XP-HHDF Features

The GSM-XP-HHDF is designed to work in conjunction with both the GSM-XP-V and GSM-XP-R systems. Available in 2 options, supporting either the GSM-XP 918V/R or GSM-XP 819V/R, location finding of a radiating target mobile can be performed in conditions where vehicle deployment is not possible.

The key features of the GSM-XP-HHDF are:

- small in size
- simple yet flexible user interface.
- LED indication to show received signal strength
- audio indication
- squelch control to allow sensitivity adjustment
- volume control
- vibration alert
- dual band operation

- RF selectability in the field
- RF channel indication
- range of external holders for covert mounting
- capability for wireless loop attachment to enable highly covert operation

1.2. GSM-XP-HHDF Specifications

The specification of the GSM-XP-HHDF unit will vary depending upon the model purchased. Two options are available:

- GSM-XP-HHDF-918 is a 900/1800 MHz variant
- GSM-XP-HHDF-819 is a 850/1900 MHz variant

1.3. Function

Function:	Provides RF signal strength indication on a selectable RF Channel
Operational Modes:	LED signal strength indication only Audio signal strength indication only LED and audio signal selection
Channel Range:	GSM-XP-HHDF-918: ARFCN 975-1023 , 0-124 , 512-885 GSM-XP-HHDF-819: ARFCN 128-251, 512-810
Channel Selection:	ARFCN selectable from GUI across channel range applicable to the Option
Interfaces:	On/Off Volume control Mode/Channel Selection Antenna connector (SMA) RF sensitivity adjustment (squelch) USB (for future function)
Power Supply:	2xAA Batteries
Antennas (supplied):	Dual band monopole Dual band rectangular patch

1.4. Radio Performance

RF

Receive Sensitivity: >-typically -97dBm

Frequency Range (GSM-XP-HHDF-918):

- 880MHz to 915MHz (GSM900 Uplink)
- 1710MHz to 1785MHz (GSM1800 Uplink)

Frequency Range (GSM-XP-HHDF-819):

- 824MHz to 849MHz (850 Uplink)
- 1850MHz to 1910MHz (1900 Uplink)

2. General Specifications

Size:	90mm (H) x 65mm (W) x 28mm (D)
Weight:	140g
Operating Temperature:	0 degrees C to +50 degrees C
Storage Temperature:	-20 degrees C to +75 degrees C
Power:	2xAA cells
Battery Life:	typically better than 10 hours (dependent on usage)

Elaman adopts a policy of continual upgrade and reserves the right to amend specifications and products where necessary.



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