

Portable Radio Station P50EX

PRIVATE RADIO SYSTEMS

Examples of organisations where the P50EX qualities really show to advantage are oil prospecting companies and refineries, companies for transport of inflammable goods, and security organisations. The station is specially designed for connection to protective uniforms used by smoke-helmeted firemen.



The P50EX is a portable radio station, specially designed for users whose work involves closeness to inflammable and explosive goods. Examples of such places are oil rigs, refineries, containers which have recently held inflammable liquids, and premises where explosive gas has leaked and smoke-helmeted firemen must go in.

Menu-guided and equipped with only four big buttons, the station can be readily operated even if the user has to wear heavy protective gloves. Despite the extremely tough demands

that public authorities make on a radio station designed for "explosive" surroundings, the P50EX is capable of transmitting with an output power of up to 4 W. Thanks to its rugged design, the station is very resistant to external influences such as cold, heat, damp and moisture, blows and shock.

Station to station

The P50EX is primarily intended for direct radio communication between persons who take part in, for example, rescue work. Calls are only made with

abbreviated numbers - to individual stations or to groups of stations. As many as 100 abbreviated numbers can be programmed. It is also possible to communicate in non-selective traffic.

Since the P50EX is equipped for tone signalling via the tone systems CCIR, ZVEI and CTCSS, it can be used in most types of radio networks, also in networks which make use of tone scanning or carrier wave scanning.

The P50EX can also be programmed individually for each one of up to 16 channels in the frequency ranges 68 - 88, 146 - 174 and 403 - 470 MHz. If required, the number of such channels may be extended to 100.

All programming is performed with a standard PC equipped with special software.

Display

The big, lighted display can present as many as 13 large and legible characters at the same time. These characters are used to show the receiving station for an outgoing call. Eight of them are alphanumeric characters. In addition, the display can present a number of fixed small symbols, e.g. indication of carrier wave, battery level, incoming call, "open traffic", etc.

Free hands

The P50EX was designed to free the user's hands, as much as possible, for



his primary tasks. An example of this is the convenient location of the volume knob on the top of the station. Here you will also find the on/off switch and an emergency alarm button.

The P50EX can be used with all common brands of headsets, e.g. lightweight headsets and voice sets, installed in protective helmets and smoke-helmeted fireman uniforms.

For maximum legibility, the letters, digits and symbols on the display are built up by a dot matrix with high resolution. The lighted display is capable of presenting 13 large, legible characters at the same time. They are used to show the receiving station for an outgoing call, see the bottom line in the graphical picture. At the same time, the two top lines can present a large number of fixed symbols, indicating various operating statuses.

Basic data

Dimensions:	67 x 167 x 32 (W x H x D)
Weight:	Approx. 580 g
Battery:	1,000 mAh
Usage time, 5-5-90, 1 W output:	10 - 11 hours
Usage time, 5-5-90, 4 W output:	6 - 7 hours
Frequency range:	68 - 88, 146 - 174 and 403 - 470 MHz
Channels:	16 (expandable to 100)
Abbreviated numbers:	48 (expandable to 100)
Temperature range:	-25° C to +55° C
Waterproof:	According to IP54
EX classification:	CENELEC EEx ib IIC T6 (T _{amb} < 40° C)
Loudspeaker power:	600 mW peak, 350 mW nominal