

The Interrogatable Two-Way Radio Alarm Transceiver



IATSU100™, IATSU100™

Interrogatable Alarm Transceiver-Synthesized

The IATSU100™ alarm transceiver, synthesized for VHF , and the IATSU100™ for UHF frequencies, enhance the new ATS generation of high performance Radio Alarm end units for LARS systems and enable close monitoring of high-risk sites, such as banks, jewellery stores or government buildings. The IATS Transceiver units consist of a radio alarm transmitter, a sensitive radio receiver and an encoder/decoder module, IATS units can therefore provide continuous verification of status, either at pre-programmed intervals or by manual command from the Central Monitoring Station (CMS) operator.

Alarm messages received from IATS units are verified and acknowledged by the Central Station. The IATS unit then ceases its message repetition, which ensures better and more efficient use of the RF channel.

For Telephone/Radio alarm monitoring systems, connection of a DI100™ Dialer Interface between the IATS unit and any alarm panel with a dialer* enables high speed radio transmission of full zone information, while the same data is communicated in parallel by phone line to a Line Receiver at the CMS.

For installers, the user-friendly FTU100™ enables quick and easy on-site programming of key IATS parameters-unit address, periodic test timing and input polarity. Dedicated GUP10™ Utility software enables PC programming of all IATS parameters, including the radio frequency and message repetition.

Important Features

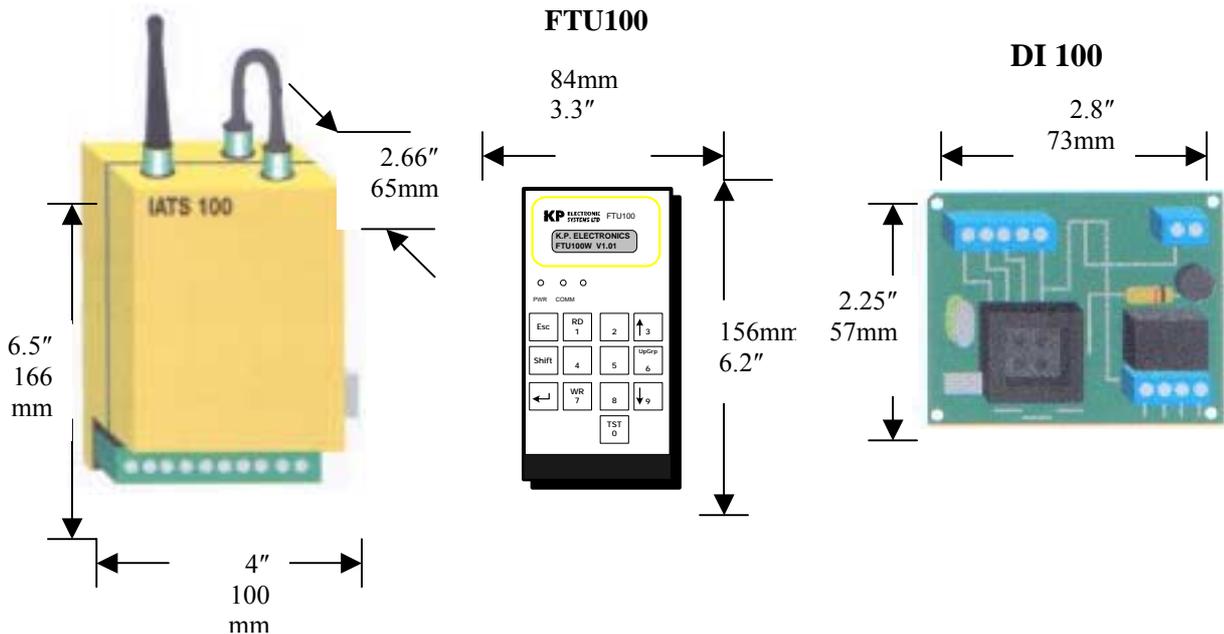
- 24 hours verification of protected site status
- Synthesized VHF and UHF units
- Compact and easy to install
- Interface with any alarm panel for transfer of up to 256 different messages*
- Serial port for parameter programming on-site by the FTU100 or by PC, using dedicated GUP10 utility software
- Programmable periodic test messages

*From a comprehensive list of panels tested by KP

KP ELECTRONIC
SYSTEMS LTD



Long Range Radio Alarm Transceiver-Synthesized



Innovations for Installers: Alarm Panel Interface- the DI100 interface enables any Alarm Panel* to communicate full zone and panel information to the IATS100 without interfering with the phone line connection. The IATS100 will then transmit this data by radio to the Central Station Receiver, while the same data is communicated by phone line to a Line Receiver. This ensures full redundancy for alarm monitoring systems, whether LARS™ is relied on as the primary system, or as the secondary backup to a phone line system.

Field Programmer Unit-the pocket size FTU100 handy programmer has a keypad and LCD display enabling easy read, write and change of IATS100 parameters on-site, such as unit address, input polarity and periodic test timing. An FTU101 variant is a similar unit for field use which measures and displays the signal strength of IATS100 transmissions as received by the nearest Repeater or the Central Station. An invaluable tool for an expanding radio network.

PC Utility Software-the user-friendly GUP 10 software for windows™ enables on-site preprogramming of all key IATS100 parameters. For programming the frequency and message repetition a user password feature allows access to authorized users only.

Specifications: IATS100 IATSU100

Power Supply:	DC Input 10-15VDC, 74mA standby, 1A max. During transmission	
RF Transmitter		
Frequency	136-174 MHz, synthesized	430-490 MHz, synthesized in three sub-bands:
	Divided into two sub-bands:	low 430-450 MHz [code IATSU100L]
	Low 136-155 MHz [code IATS100L]	medium 450-470 MHz [code IATSU100M]
	High 155-174 MHz [code IATS100H]	high 470-490 MHz [code IATSU100H]
Modulation	FM, FSK and PWM	
Power Output	5W	2W
Frequency Stability	±5ppm at -30°C to 60°C (-23°F to 141°F)	
Spurious Emission	-75dB below carrier min	
Deviation	±5kHz max	
	±2.0KHz for 12.5 KHz bands (factory adjusted)	
	±3.3KHz for 25 KHz bands (factory adjusted)	
Output impedance	50Ω BNC connector	
FM Receiver		
Sensitivity	-117dBm for 12dB sinad	
Selectivity	52dB at 12.5 KHz	
Digital Encoder		
Encoding	32 bit words in LARS and LARS-1 protocol with BCH and parity	
Unit Weight	1kg (2.2 lbs)	