

VIPER TME

World's first TETRA pager
useable in all TETRA networks



TETRA paging - the benchmark of the future

- **Paging in all TETRA networks using standard services**
- **Shortest response times
Netwide availability**
- **Active paging - Active acknowledgement**
- **Large display
with programmable 24bit RGB backlight**
- **MP3 announcements / alert pattern**
- **Integrated GPS receiver**
- **Emergency Alert**

The TETRA pager (TME) for firebrigades, emergency services, police, security forces or special forces.

This pager was especially designed for the german BOS net with it's extended security requirements (BSI crypto) using a SIM card. Apart from that, this pager is useable in all standard TETRA networks. The paging functionality is implemented using the standard SDS service in both directions (active paging).

Very short response times as well as the active acknowledgement (user can transmitt data back) simplify the planning of ressources and enable a very fast first response.

The large LC-display and the simple user interface cloned from our standard LX4 pager ensure ease of use.

Free programmable MP3 player integrated for individual announcements and alert pattern.

Experience – customer proximity – Made in Germany

Gelmann
Elektronik GmbH



Features **VIPER TME**

Receiver	TETRA modem, 380..400 and 410..430 MHz Protocol TETRA 25, short data service (SDS) Text SDS and Status SDS Protocol Identifier (PID) configurable: 130= text message, 2= simple text, 138= concatenated text message 195= Motorola callout protocol Static reference sensitivity -112dBm Dynamic (faded) reference sensitivity -103dBm
Transmitter	TETRA modem 380..400 and 410..430 MHz Protocol TETRA 25, short data service (SDS) Up to 40 predefined messages (programmable) for acknowledgment (after message received) or sending unsolicited messages Emergency Alert by pressing one button (programmable) Transmitter can be powered off (TXI)
Call addresses	1 individual address (ISSI), 1 group address (GSSI)
Memory	Up to 1000 characters per message, up to 128 non-volatile memories for storing incoming messages Example: 40 message slots with 1000 characters each Each message marked with time stamp (time / date)
Alarm	Free programmable MP3 player integrated for individual alarm tones / melodies / sequences / voice prompts Vibrator alarm Alarm modes: loud, redundant (loud & vibration), discrete (vibration and synthetic beep), silent (vibration only) Up to 8 volume levels Automatic LCD backlighting in case of incoming message, programmable RGB color Coverage control including alarm in case of losing contact to network (log-out) Low voltage alarm
Alarm replay	Alarm replay: Full alarm like initial alarm or mini beep (synthetic) Reminder: Noticeable flashing of the LCD backlight (text & backlight)
Display	Large LCD-display (128x64dots, viewing area 54.6x32mm) Several selectable text sizes to enhance readability Up to 240 characters per display page Word wrap function to enhance readability 24bit RGB LED backlight with programmable colors Battery capacity display
User interface	Illuminated keypad (night design) with fixed functions for ease of use Clear menu layout: all functions explained by text and icons Menu layout individual programmable (enable/disable of functions, menu items) All settings preserved in non-volatile memory Programmable key click, programmable key lock
Clock	Crystal controlled clock with automatic switching of daylight saving time Adjustable alarm clock Time controlled power-on/off of pager
Serial data interface	All received messages are transferred to an auxiliary device (PC, printer, large sized display...) via serial data interface. The interface protocol can be adapted to the auxiliary device, individually.
PIN code	Save to unauthorized use
Password	Save to unauthorized attempt to reprogram/readout of pager data, preset to factory defaults
Encryption	Optional SIM cardreader for BOS net Germany (BSI crypto)
GPS receiver	An optional integrated GPS receiver provide positional information
Technical data	Firmware flashable in standard programmer Power supply: Li-Ion 3,7V (780mAh or 2200mAh) Mini-USB connector to recharge Antenna: internal optimized antenna Operational temperature range : -20 .. 55°C Protection: IP54 Dimension (L/W/H): approx. 92/57/26mm

Accessories

Desktop charger	Charger unit with antenna connector and switching contact (relay)
Antenna	external antenna for desktop charger
Programming kit	USB programming kit with USB cable and software
Clip	removable belt clip
Bag	Leather or nylon bag
Chain/Bungee cord	Golden chain or bungee cord