VIPER TME

World's first TETRA pager in full production 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 back light**

- ➢ **MP3 announcements / alert pattern**

- ➢ **Integrated GPS receiver**

- ➢ **Emergency Alert / lone worker**

- ➢ **ATEX approved II 2G Ex ib IIC T4 Gb**

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

This pager was especially designed for the german BOS net. 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 transmit data back) simplify the planning of resources and enable a very fast first response.

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

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

ATEX approved version available:
approval number ZELM 12 ATEX 0499 X

Experience – customer proximity – Made in Germany

Oelmann
Elektronik GmbH

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 (callout), 10 (LIP) Static reference sensitivity -112dBm Dynamic (faded) reference sensitivity -103bBm
Transmitter	TETRA modem 380..400 and 410..430 MHz Protocol TETRA 25, short data service (SDS) Up to 40 predefined messages (programmable) for acknowledgement (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 (none ATEX only) 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 (none ATEX only) Automatic LCD back lighting in case of incoming message, programmable 24bit RGB color Coverage control including alarm in case of loosing 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 back light (text & back light)
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 back light 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 real time 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	Air interface encryption: TEA1, TEA2, TEA3 or clear Optional SIM card reader for BOS net Germany (BSI in preparation)
GPS receiver	An optional integrated GPS receiver: using location information protocol (LIP) with trigger definitions
ATEX approved	II 2G Ex ib IIC t4 Gb with approval number ZELM 12 ATEX 0499 X
Technical data	Firmware flash able in standard programmer Power supply: Li-Ion 3,7V (780mAh or 2200mAh) Mini-USB connector to recharge (none ATEX only) Antenna: internal optimized antenna Operational temperature range : –20 .. 55°C, ATEX approved –10 .. 50°C Degree of protection: IP54 Dimension (L/W/H): approx. 92/57/24mm

Accessories

Desktop charger	Desktop charger 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
Case	Leather case