



DESCRIPTION

BIDI 04L is the bidirectional call alarm device operating via VHF and UHF radio frequencies.

The result of development focused on transmission power, the precision of communications and external disturbance; the device sends the changes in alarm inputs to the operating centre via the most common communication protocols which ensures its compatibility with all radio alarm reception centres.

The device acts as a digital repeater for monodirectional, pocket and bidirectional (R version) peripheral devices.

FUNCTIONAL FEATURES

- Eight digital inputs (programmable for "status" or "alarm" modes)
- Device open indicator Tamper alarm
- Eight open-collector outputs
- Power supply failure/restoration indicator alarm with programmable filter
- Antenna disconnection indicator
- Battery charge status check
- Low battery and stop-battery function indicator
- Alarm system sensor disabling relay or, alternatively, to be matched to an output
- Two completely programmable radio transmission channels
- Encoded and authenticated communications
- Repeater functions for monodirectional, pocket and bidirectional (R version) peripheral devices
- Field programming of all operating parameters via PC

COMMUNICATION SECURITY

Authentication code: this means that the control unit can only communicate with peripheral devices which belong to its own radio network. A back-up radio channel allows alarms to be sent even in cases of sabotage or disturbance on the main radio channel.



CONFIGURATION

A configuration software is available to commission the peripherals, and provides on-screen detailed information on the activities of the device, and the activity of the radio channel by identifying, for instance, repeaters receivable in a given area with the relative radio signal.





TECHNICAL FEATURES

- **Type:** bidirectional radio
- **Frequency range:** UHF (440 - 470 MHz), VHF (156 - 174MHz)
- **Inputs:** 8 clean contact inputs with pull-up: low level <0.8V; high level > 2V; low level current 1mA; max voltage 5V; tamper device open indicator
- **Outputs:** 8 configurable bistable/monostable open-collector outputs: max voltage 13.5V; max current 100mA; common outputs 13.5V 200mA max; relay output (12V 1 A) for sensor disabling; programmable also as a remote controlled relay output (linked to 8 outputs)
- **Communication protocols:** Proteus, Extended Proteus, Upr
- **Power supply network alarm:** with programmable delay of from 0 to 60 minutes
- **Aerial disconnection:** aerial disconnection indicator output
- **Battery:** 12V 7.2Ah with protection against polarity reversal
- **Battery autonomy:** ~48 hours (recharge time ~48 hours)
- **Battery status reader:** by means of periodic voltage tests with battery status and automatic switch-off threshold checks
- **Transmission output:** 2 -10W programmable
- **Channelling:** 12.5 kHz programmable
- **Receiver sensitivity:** 0.3 μ V
- **Receiver selectivity:** - >60dB (12.5kHz)
- **Frequency stability:** \pm 0.5 kHz
- **Spurious and harmonic emission:** < 0.25 μ W
- **Subaudio tone generator:** 32 (67 Hz - 203.5 Hz)
- **5 LED indicators:** indicate the device operation status
- **Power supply:** 230Vac \pm 10%, 50/60 Hz
- **Power consumption:** (network) 65 mA in receiving mode; 190 mA in battery-less transmission mode (low power); 55 mA in battery powered transmission mode
- **Operating temperature:** -20/+55°C
- **Dimensions:** (mm, L x H x D): 232 x 285 x 101
- **Weight:** (without battery) 3,600 g
- **Conformity:** To Directives 2006/95/CEE, 2004/108/CEE, 99/5/CEE (R&TTE)
- **Product ID:** 3PA94 (UHF) | 3-PA95 (VHF)

Urmet reserves the right to change the characteristics of the illustrated product.
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