



TL405LE Universal Dual-Path Communicator



A Breath of Fresh Air for Conventional Panels

Key features

- LTE 4G and Ethernet/IP communication paths
- CID-to-voice message, CID-to-push notification and CID-to-SMS functions
- EN50136 approved
- Built-in antenna
- Remote programming via DLS 5
- Direct communication with Monitoring Stations
- Six programmable terminals (input/output)
- USB port for local programming
- Connector for optional external antennas
- Optional Li-Ion battery for 6 hours of standby

Upgrade your alarm panels with cellular and IP connectivity

Landline use for communication is declining rapidly in both the residential and small business markets. As consumers replace their landlines with mobile phones and providers migrate from PSTN to VoIP networks, it is essential to upgrade landline-only alarm systems to systems with cellular and IP connectivity.

With the TL405LE universal dual-path communicator, you can upgrade almost any conventional PSTN panel to use LTE and IP connections, while the ConnectAlarm mobile app lets users arm and disarm the system remotely and check the status of their conventional panels. This solution is a cost-effective way to optimize your customers' security, offer a smarter system and extend the service life of their panels.

Strengthen alarm system security

Cellular and IP communication eliminates the risk of an intruder cutting the landline, since there is no wire to cut. The communication paths are redundant, ensuring that alerts are always sent to the user or monitoring service.

Offer a smarter alarm system

Provides advanced functionality that lets customers enjoy a calmer, more comfortable life. The universal dual-path communicator offers the following features:

- Remote arming/disarming from a mobile device, via SMS messages or the user app
- Basic home automation features, such as control of lighting and appliances through dry-contact inputs
- Useful information about what is happening, with innovative decoding of Contact ID and SIA codes into clear audio messages, SMS messages or push notifications, providing detailed real-time notifications of system status and of alarm, tamper and trouble events
- Communication over LTE and IP networks, with monitoring providers using Sur-Gard and PowerManage receivers
- Dedicated templates for easy control of PowerSeries and PowerSeries Neo panels through the ConnectAlarm app

Extend panel life and reduce costs

Let customers improve their security and convenience without the expense of buying a new security system.

- Help customers on tight budgets get safer, smarter intrusion protection
- Let customers without a landline keep using their conventional telephone-line panels
- Provide a lower-cost cellular and IP communication option where available



Key specifications

- Emulates landline telephone connectivity
- Automatically switches to the GSM network and/or an IP connection if the landline fails (line cut)
- GSM signal indicator
- 6 terminals programmable as input lines or open-collector outputs
- Landline overload protection
- LTE 4G cellular communicator
- On-board integrated antenna
- Voice/SMS dialer
- CID-to-push notification conversion
- Supports the Contact ID communication format from a connected control panel for communication over the LTE and IP network
- Cellular/IP communication with Sur-Gard System I-IP/II/III/5 receivers and PowerManage v4.6 or later
- Control option through the ConnectAlarm user app
- PC-programmable options
- 32 SMS messages, each up to 100 characters (2 per input line plus 6 for status indications and 1 periodic)
- 8 programmable phone numbers (max. 16 digits) for the SMS dialer
- 8 programmable phone numbers for the Contact ID dialer via GPRS
- Up to 32 phone numbers (max. 16 digits) programmable for remote activation of the open-collector outputs
- Remote activation of outputs via caller ID and/or SMS
- Balance check for prepaid SIM cards
- Panel Transmission Monitoring (PTM)
- Built-in tamper switches
- PC-LINK connector
- USB type A connector (host and device)
- Programming via USB flash drive
- Advanced diagnostics and logging
- Local and remote firmware upgrade and programming
- Alarm event transmission over LTE and IP communication
- Programmable priority between PSTN and cellular/IP connection
- Two-way voice communication over the cellular network
- Optional backup battery
- Anti-jamming

Specifications

Model	TL405LE-ANZ	TL450LE-EU	TL405LE-LAT
Input voltage	10.7 to 27.6 V		
Average standby current draw, without battery	90 mA (outputs not included) at 13.8 V		
Maximum current draw in limited mode	230 mA (outputs not included) at 13.8 V		
Maximum current draw	450 mA (outputs not included) at 13.8 V		
Outputs	6 open-collector, 100 mA		
Operating frequency (MHz)	2G: X 3G: 800/850/900/2100 4G/LTE: 700/800/850/900/ 1800/2100	2G: 900/1800 3G: 900/1800/2100 4G/LTE: 700/800/900/1800/ 2100/2600	2G: 850/900/1800/1900 3G: 850/1700/1900/2100 4G/LTE: 700/850/1700/1800/ 1900/2100/2600
Maximum line loop resistance between the device connected in series at the line input	1 Kohm		
Maximum number of devices connected in parallel at the line input	1		
Environmental class	II		
Operating temperature	-10 to +40 °C		
Humidity	0 to 95%		
Dimensions (width x height x depth)	208 x 155 x 62 mm		
Weight	500 g		

Models

TL405LE-ANZ: LTE + Ethernet communicator in plastic enclosure, Australia and New Zealand

TL405LE-EU: LTE + Ethernet communicator in plastic enclosure, EMEA and APAC

TL405LE-LAT: LTE + Ethernet communicator in plastic enclosure, Latin America



Johnson Controls

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