ProTalk
EFFORTLESS SUPERVISION

**ALARM REPORTING &
CONTROL SOLUTIONS**

B1285
ProTalk Link

The ProTalk Link provides a flexible, effective solution to a wide variety of alarm monitoring situations. Each system consists of one main module and at least one communication module. The systems can be further expanded using any combination of the available digital, analog or PLC expansion modules. Alarm notifications can be sent via phone, text, email, radio or PA system. Remote alarm acknowledgement, system interrogation and relay control is possible via phone and text.

ProTalk Link

The ProTalk Link is a modular alarm auto dialer. Cellular dialing, SMS text, public address announcements, PLC integration, remote programming, callout redundancy, expansion capabilities - ALL are possible with the ProTalk Link.

In its simplest form, the ProTalk Link consists of one B1285-M1 control module and one communications module (B1285-T1 - landline or B1285-W4 - cellular). This setup will provide you with a callout, 8 discrete inputs and 4 relay outputs. You can add a complimentary communications module to provide backup alarm dialing in the event of a primary failure. Your choice in communications module will determine your available callout methods - landline calls, radio & PA announcements and/or cellular calls, SMS text and email.

Complex systems require flexibility. You can further expand the ProTalk Link using any combination of our 3 available expansion modules to a maximum of 16 total modules.

The B1285-D1 Digital expansion module provides 16 discrete inputs and 4 reset inputs allowing you to reset the status of any totalizer or accumulator inputs.

The B1285-A1 Analog expansion module provides 8 current loop inputs (4-20mA) and 8 voltage inputs (max 30V).

The B1285-P2 PLC expansion module offers the most in terms of inputs (up to 480 points). Choose from a variety of protocols including Modbus RTU or TCP/IP, Allen Bradley DF1 or Ethernet/IP.

Operation of the ProTalk Link is similar to other units in the ProTalk line of alarm dialers.

When an alarm condition occurs, such as, high or low temperature, power failure or equipment upset, the ProTalk Link automatically places calls to inform people of the situation. In the case of unanswered calls, the ProTalk Link will continue to dial through a list of programmed numbers until it successfully reaches someone and is able to report the alarm.

Highlights & General Features

The B1285 ProTalk Link is very versatile and can be programmed to perform many more functions at the discretion of the user. It can:

- support two communication modules enabling you to send critical alarm messages over any combination of mobile radio, telephone, cellular, paging or electronically in the form of SMS text or Email
- accepts a variety of expansion modules enabling you to monitor over 500 alarm points.
- monitor Modbus, Allen Bradley, and EtherNet/IP PLCs via RS232, RS485 and TCP/IP
- provide local and internet real-time alarm viewing
- announce alarms over telephone, text, radio, PA, email or any combination thereof.
- be programmed to send coded tones along with the voice messages to activate such devices as radio pagers, relay and annunciator panels.
- perform remote control functions automatically by using up to 10 relay outputs or manually by receiving user defined DTMF codes.
- use up to 8 alarm groups and 8 shifts to organize alarm callouts based on common alarms or time of day.
- be customized to suit most applications using a combination of callout units and expansion modules
- accepts both cellular and land line callout modules to provide reporting redundancy
- announce a module failure in the event of a B1285-M1 main module failure using autonomous mode
- email a daily activity summary report to notify you of all recorded activity
- email and/or text notifications when alarms are announced, cleared and/or acknowledged (for informational purposes only).
- email, text and/or phone regular status reports including alarm status and enabled point values
- define security levels for incoming calls and text messages.
- require an access code for phone or text access to programming.
- function in extreme temperatures of -40°C to +60°C (-40°F to 140°F).

The ProTalk Link brings the most in application compatibility and customization and continues the ProTalk trend of industry leading industrial alarm dialers.

Engineering Specifications

All Modules

Enclosure	Steel, powder coated matte black
	Mounting ears for panel installation
Environment	-40°C to +60°C, 95% humidity, non-condensing
Connectors	Plug-in screw terminal block unless noted
	DB15 male (bottom of case; not on B1285M1)
	DB15 female (top of case)
Power	+10 VDC to +30 VDC
	150mA @ 12 VDC, 100mA @ 24 VDC, with all indicators on
Front Panel	LED indicators and connector markings
Rating	CSA/UL Safety Approvals

Telco Port	RJ11
	Connects to a telephone line
Radio Port	TX audio: 600 ohms, single ended, capacitively coupled, adjustable -20 dBm to 0 dBm
	RX audio: 10 Kohm, single ended, capacitively coupled, adjustable -20 dBm to 0 dBm
	PTT: Open collector, 25 VDC max, 100mA max
	COS: 10 Kohm, ground closure
	Telco Modem 14,400 bps

B1285-M1

Digital Inputs	2 total, dedicated as power fail and acknowledge inputs
	Input levels: open/ground closure
	Impedance: 20k ohms
	Maximum +voltage: +30 VDC
Relay Outputs	2 Independent form C outputs 1A @ 30 VDC
Program Ports	DB9 - RS232, DTE 57,600 baud, 1 stop, no parity
	Connects to a PC for configuration programming, code updating and monitoring
	USB/USB2 - Same function as the DB9 port 1, disables the DB9 when connected to a PC
	RJ11 - Telset program port
	Connects to a DTMF telset for voice programming and limited configuration programming

B1285-W4

Digital Inputs	8 ground closure operation
	Internally pulled up to +5 VDC
	1 Mohm input impedance
	Programmable as standard digital, watchdog, pulse width, totalizer or accumulator types
Relay Outputs	4 Independent form C outputs
	2A @ 30 VDC
	Programmable as on/off or timed
	Latching coils, can be programmed to maintain previous state on power-up
Current	Add 250 mA @ 12V or 150 mA @ 24V when transmitting at full power
Antenna Ports	50 ohms, SMA female
SIM card	Mini-SIM: 25.00mm (L) x 15.00mm (W) x 0.76mm (H) Front panel accessible

B1285-T1

Digital Inputs	8 ground closure operation
	Internally pulled up to +5 VDC
	1 M ohm input impedance
	Programmable as standard digital, watchdog, pulse width, totalizer or accumulator types
Relay Outputs	4 Independent form C outputs
	2A @ 30 VDC
	Programmable as on/off or timed
	Latching coils, can be programmed to maintain previous state on power-up

B1285-P2

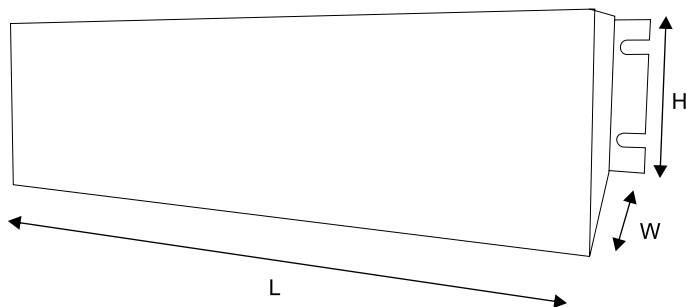|	
Inputs	Up to 480 points
Protocols	Modbus RTU; client or server
	Modbus TCP/IP; client or server
	Allen Bradley DF1: client (point to point) to a PLC5 or SLC500 series device
	Ethernet/IP; remote IO adapter
Comm Ports	RS232 (DTE) DB9
	RS485 (2 wire terminal block)
	Ethernet – Local PLC Network (10base-T)
	Ethernet – Remote Web/Email (10base-T)

Engineering Specifications

B1285-A1

Analog Inputs
8 current loop inputs
Impedance: 100 ohms floating
Maximum common mode voltage: +35VDC
Operating range: 4-20mA DC
8 voltage inputs
Single ended analog voltage referenced to ground
Impedance: 110 kohms to ground
Operating range: programmable for +5, +10 or +30 VDC full scale
Maximum input voltage: +35 VDC

B1285-D1

Digital Inputs
16 total
Impedance: 250 kohms
Maximum +voltage: +30 VDC
Minimum +voltage: +5 VDC

Clear inputs
4 total, function as clear controls for digital inputs that are programmed as a totalizer or accumulator on inputs 1 to 4 respectfully
Input format is the same as the setting for the associated digital input Impedance: 250 kohms
Maximum +voltage: +30 VDC
Minimum +voltage: +5 VDC

STACKED EXAMPLE

Dimensions

Length (L) cm (in)	Width (W) cm (in)	Height (H) cm (in)	Weight kg (lbs)
21.34 (8.4)	10.92 (4.3)	6.10 (2.4)	1.04 (2.3)

Available Accessories

PN	Description
NEMA	NEMA 4X Environmental Enclosure
ANT DB WIDEBAND	Wideband Antenna, for poor coverage areas
ANT OMNI	Omnidirectional Antenna, for good coverage areas
ANT DB PHANTOM	Bulkhead Mount Phantom Antenna
LP COAX	Coax Lighting Protector 700-2200MHz
B1252	7 AH Battery Backup Power Supply
RME B1285	Rack Mount Ears (for 19" racks)