TL280(R)

Internet Alarm Communicator - International



INSTALLATION GUIDE V4.1

For installation manual visit www.dsc.com

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WARNING: INSTALLER PLEASE READ CAREFULLY

Note to Installers

The warnings on this page contain vital information. As the only individual in contact with system users, it is the installer's responsibility to bring each item in this warning to the attention of all users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some, but not all, of the reasons may be:

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that your security system be reviewed periodically to ensure that its features remain effective and that it is updated or replaced if it is found that it does not provide the protection expected.

Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage, and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices, and any other operational devices that are part of the system.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from an emergency due to their inability to respond to the warmings in a timely manner. If the system is remotely monitored, the response may not occur in time to protect the occupants or their belongings.

Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation. Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbecues, fireplaces, sunlight, steam vents, lighting and so on

Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners, other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

GENERAL

IMPORTANT - This installation manual shall be used in conjunction with the control panel manual. All the safety instructions specified within that manual shall be observed. The control panel is referenced as the "panel" throughout this document. This installation guide provides the basic wiring, programming and troubleshooting information. Use this guide in conjunction with the Installation Manual available online from the DSC website at www.dsc.com.

The Ethernet communicator is a fixed, wall-mounted unit, and shall be installed in the location specified in these instructions. The equipment enclosure must be fully assembled and closed, with all the necessary screws/tabs, and secured to a wall before operation. Internal wiring must be routed in a manner that prevents:

- Excessive strain on wire and on terminal connections,
- Interference between power limited and non power limited wiring,
- Loosening of terminal connections, or
- · Damage of conductor insulation.

WARNING: Never install this equipment during a lightning storm.

Safety Information

The installer must instruct the system user on each of the following:

- Do not attempt to service this product. Opening or removing covers may expose the user to dangerous voltages or other risks.
- Any servicing shall be referred to service persons only.
- Use authorized accessories only with this equipment.
- Do not stay close to the equipment during device operation.

Model Information

This manual covers the following model of alarm communicator: TL280 and TL280R. References to model TL280(R) throughout this manual applies to all specified models unless stated differently. Models ending in "R" include a built-in RS-422 interface for connecting to local third party applications.

The TL280(R) is an Ethernet alarm communicator that sends alarm communication to Sur-Gard System I-IP, II, III (SG-DRL3IP), IV (SG-DRL4IP), and 5 (SG-DRL5IP) central station receivers through Ethernet/Internet.

The TL280(R) supports integration over IP and is available with licensed 3rd party product solutions. Specific programming for the related programming sections is to be provided by the 3rd party. A current list of compatible 3rd party solutions can be found at www.dsc.com.

The communicator can be used as either a backup or primary communicator. The communicator supports Internet Protocol (IP) transmission of panel and communicator events over Internet.

Panel Mounting

The TL280 communicator is compatible with HS2016, HS2032, HS2064, and HS2128 panels.

Features

- 128-bit AES encryption via Ethernet/Internet (NIST validation certificate number 2645).
- Ethernet LAN/WAN 10/100 BASE-T.
- Individual Internet periodic test transmission.
- Integrated call routing.
- Visual Verification (requires Sur-Gard System 5 Receiver)
- Remote firmware upgrade capability of the communicator and panel firmware via Internet.
- Panel remote uploading/downloading support via Internet.
- PC-LINK connection.
- SIA and Contact ID (CID) formats supported.
- · Trouble display LEDs.
- Supervision heartbeats sent via Internet.
- Third Party Integration over IP

EN50131-1 Installation Requirements

For EN50131-1 compliant installations, the following programming options shall be set as described. Supervision Heartbeat (required for ATS4 and ATS5):

• [851][004] set to 0087h (135s heartbeat).

NOTE: The compatible receiver at ARC location shall have supervision window programmed for 1800s (ATS4) or 180s (ATS 5).

• [851][005] options 1 and 3 shall be enabled

Test transmission (required for ATS3):

- [851] System test options [026] and [027] shall be enabled (FF) for the communication paths available.
- [851][124] and [125] shall be programmed with time of day for test transmission and 1440 minutes (24h) for test transmission cycle

Configuration of communication paths (all ATS classes)

- [300][001] select option 02 for auto routing (this will allow transmission of the events over all available communication paths in the system)
- [380] enable option 5 (YES) for parallel transmission over all available communication paths (if redundant configuration is desired)
- [382] enable option 5 (YES) this will enable Alternate communicator
- [384] enable the desired back-up configuration (receiver 2 back-up for receiver 1 or receiver 3 back-up for receiver 1).

Technical Specifications, Ratings and Compatibility

Table 1: Communicator Ratings

Model	TL280(R)
Power Supply Ratings	<u> </u>
Input Voltage	10.8-12.5 VDC. Power is supplied from the panel's PC-Link header or a PCL-422 module in remote cabinet installations. In remote cabinet installations, the PCL-422 module located with the communicator is powered by either an HSM2204 or an HSM390. Refer to the PCL-422 installation instructions for details.
Current Consumption	<u> </u>
Current	100mA @ 13.66V
Environmental Specifications	S
Operating Temperature	-10°C to 55°C
Humidity	5% ~ 93% relative humidity, non-condensing
Mechanical Specifications	<u> </u>
Board Dimensions (mm)	$100 \times 150 \times 15$
Weight (grams) with bracket	290

Table 2: Compatible Receivers, and Panels

Communicator	Receiver/ Panel	Description
TL280	Receiver	Sur-Gard System I Receiver, version 1.13+ Sur-Gard System II Receiver, version 2.10+ Sur-Gard SG-DRL3-IP, version 2.30+ (for Sur-Gard System III Receiver) Sur-Gard SG-DRL4-IP version 1.20+ (for Sur-Gard System IV Receiver) Sur-Gard SG-DRL5-IP version 1.00+ (for Sur-Gard System 5 Receiver)
	Panel	• HS2016 • HS2032 • HS2064 • HS2128

NOTE: Enter [*][8][Installer Code][900] at keypad to view the panel version number.

COMMUNICATOR INSTALLATION CONFIGURATION

This Ethernet Communicator shall be installed by service persons only (service person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed to in performing a task and can also take measures to minimize the risks to that person or other persons). The Communicator shall be installed and used within an environment that provides the pollution degree max 2, overvoltages category II, in non-

hazardous, indoor locations only. This manual shall be used with the installation manual of the panel which is connected to the Ethernet communicator. All instructions specified within the panel manual must be observed.

All local rules imposed by local electrical codes shall be observed and respected during installation.

Installing the Ethernet Cable (TL2803G(R) Only)

A Category 5 (CAT 5) Ethernet cable must be run from a source with Internet connectivity to the communicator module, inside the panel. The communicator end of the cable must be terminated with an RJ45 plug, which will connect to the communicator's RJ45 jack after the communicator is installed. All requirements for installation of CAT5 Ethernet cable must be observed for correct operation of the communicator, including, but not limited to, the following:

HSPA(3G)/Dual Alarm Communicator Installation Manual

- Do NOT strip off cable sheathing more than required for proper termination.
- Do NOT kink/knot cable.
- Do NOT crush cable with cable ties.
- Do NOT untwist CAT5 pairs more than ½ in. (1.2cm).
- Do NOT splice cable.
- Do NOT bend cable at right angles or make any other sharp bends.

NOTE: CAT5 specification requires that any cable bend must have a minimum 2 in. (5 cm) bend radius. Maximum length of CAT 5 cable is 328 ft. (100 m).

INSTALLING ETHERNET COMMUNICATOR IN PANEL

Installing Communicator with HS2016, HS2032, HS2064, and HS2128 Panel

- 1. To assemble supplied mounting bracket, perform the following: (see **Figure 1**).
 - Remove the 4 white plastic standoffs from the bag provided with the communicator kit.
 - b. Insert the 4 standoffs through the back of the mounting bracket, into the holes at each corner.
 - c. Place the bracket on a flat, solid surface. Hold the communicator component side up and orient the 4 holes on the communicator with the 4 standoffs protruding from the bracket. Push the communicator firmly and evenly onto the standoffs until it is securely attached to the mounting bracket.
 - d. Remove the panel front cover.
 - e. Remove and discard the circular knockout located in the top-right section of the panel.
- 2. Install the Communicator into the panel:
 - a. Attach one end of the PC-LINK cable to the panel PC-LINK header on the panel (red wire goes on the right-hand pin of the **panel** PCLINK_2 header (see **Figure 3**)).
 - b. Insert the assembled communicator into the panel.
 - c. Locate the screw hole on the right side wall of the panel (see Figure 2 (screw)). Line up the assembled communicator with the right side wall of the panel and, using the screw provided, secure the mounting bracket to the panel.

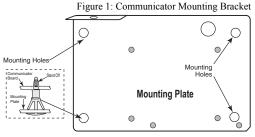


Figure 2:HS2016/2032/2064/2128 Panel PC-Link cable connector

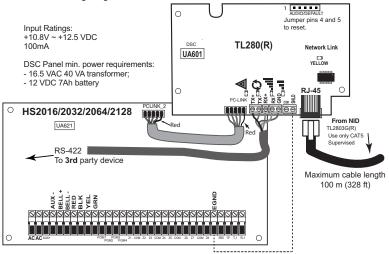


- d. Attach the other end of the PC-LINK cable to the communicator (red wire goes on the right-hand pin of the **communicator** PC-LINK header (see Figure 3)).
- e. Using light pressure (finger tight only), attach the supplied white quad band whip antenna to the threaded antenna connection point at top of the panel.

WARNING! - Modules are power limited. Do not route any wiring over the circuit board. Maintain at least 1in. (25.4mm) separation between circuit board and wiring. A minimum of $\frac{1}{4}$ in. (7mm) separation must be maintained at all points between non-power limited wiring and power limited wiring.

- 3. To electrically connect the communicator to the panel, perform the following steps (see Figure 3).
 - Disconnect both AC power and battery connections from the panel, and disconnect telephone line.

Figure 3: Communicator Wiring Diagram



4. Install the RS-422 connections (R models only). When installing the communicator for use with 3rd party applications an RS-422 cable must be connected between the 3rd party device and the communicator module. Maximum cable length for RS-422 cable is 1,000 ft. (305 m).

NOTE: Please refer to the installation manual for the 3rd party device for wiring instructions.

Wire the RS-422 connections as per the table below:

Table 3: RS-422 Connections

3rd Party Device	Communicator
TX+	RX+
TX-	RX-
RX+	TX+
RX-	TX-
GND (Optional)	GND

NOTE: The GND connection is optional. DSC recommends connecting GND wire at both ends.

Install Network Cable

- Route the CAT 5 Ethernet cable through back of the panel and plug it into the communicator's RJ45 jack.
- 2. Perform the following steps for initial power on of the panel with communicator installed:
 - a. Reconnect the AC power, telephone line, and battery + connector to the panel. (The communicator and panel will power up together).
 - b. Observe that the communicator's red and yellow LEDs are flashing together while it initializes. The red and yellow LEDs will continue to flash until the communicator has success-

fully communicated to all programmed receivers. If this is the first time the communicator has been powered up, the module will not be able to initiate communication until it has been programmed.

NOTE: Initialization may take several minutes to complete. Red and yellow LEDs will flash together during initialization. Do not continue to next step until the red and yellow LEDs have stopped flashing. (If only the yellow LED is flashing, there is a communicator trouble). Correct trouble indicated by flashes on yellow LED before continuing. (for trouble-shooting assistance see Table 6).

3. Mount the panel in location.

INITIAL PANEL PROGRAMMING

HS2016/2032/2064/2128 Initial Programming

Please refer to the panel manual section 'Alternate Communicator Set-up' for details.

- 1. In panel section [377] 'Communication Variables', subsection [002] 'Communication Delays', sub-subsection [1] 'Communication Delay', program 060 (seconds).
- 2. In panel section [382] 'Communicator Option 3' set option [5] ON.
- 3. In panel sections [300] 'Panel/Receiver Communication Paths', subsections [001] to [004], program the subsection with 02 to 06.

Table 4: Communicator Path Programming

Value	Communication Method
02	Auto Routing
03	Ethernet 1
04	Ethernet 2

NOTE: Refer to panel manual for additional information.

- 4. In panel section [350] 'Communication Formats', program the communication format as: CID (03) or SIA FSK (04).
- 5. In panel sections [311] [318] 'Partition Call Directions', program the call direction options for the system.
- 6. In panel section [401] 'DLS/SA Options', set toggle option [2] 'User Enable DLS' to **ON** in order to perform panel DLS session through Ethernet.

NOTE: Before leaving the premises, the installer should verify all programmed communications paths. See programming options section [851][901] to send immediate test transmissions.

Communicator Troubles displayed on a HS2016/2032/2064/2128

The communication trouble is the only trouble that will appear on the keypad Liquid Crystal Display (LCD) when encountered by a communicator installed in a HS2016/2032/2064/2128. For more information about the trouble on the communicator module refer to the panel event buffer or by accessing [*][2] to view the individual trouble types.

COMMUNICATOR STATUS LEDS

The communicator has 2 on-board LED indicators: a yellow trouble LED and a red network connection status LED.

▲Yellow Trouble LED

This yellow LED will flash to indicate a trouble on the unit. The number of flashes indicates the type of trouble. See the table below for the coded flashes and the conditions which will activate the trouble status LED.

Table 5: Yellow Trouble Status LED

# of Flashes	Trouble	# of Flashes	Trouble
2	Panel Supervision Trouble	8	Receiver Supervision Trouble
4	Not Applicable	9	FTC Trouble
5	Not Applicable	10	Not Applicable

Table 5: Yellow Trouble Status LED (Continued)

# of Flashes	Trouble	# of Flashes	Trouble
6	Ethernet Trouble	12	Module Configuration Trouble
7	Receiver Not Available Trouble		

NOTE: Only the highest priority trouble (2 flashes is the highest priority trouble) is indicated. When this trouble is restored, the next highest trouble will indicate, if present. This will continue until all troubles have been cleared (yellow LED is not flashing).

A Red Network Connection Status LED

BLINKING: Indicates communications in progress.

- · Once quickly for outgoing Ethernet transmission.
- Twice quickly to indicate incoming Ethernet ACK/NACK.

OFF: This is the normal state of the red network connection status LED. There are no network connection issues present.

ON: There is a problem with the Ethernet network connection. LED will be ON if any of the following occur:

- Ethernet cable is not connected,
- · DHCP configuration times out.

Network Activity LED (Red)

• Ethernet Activity: Red LED will blink quickly once for transmit, or twice for receive.

COMMUNICATOR TROUBLESHOOTING

Table 6: Trouble indications

Trouble indication	Trouble Indicator Digit	Possible Causes	Trouble Possible Solution
No Indication	N/A	No Power	 Check the power connections between the panel and the communicator. Confirm PC-LINK cable is properly installed between communicator and panel.
Yellow LED – 2 Flashes	02	Panel Supervision Trouble	Check section [382] toggle option[5] is ON (Alternate Communicator Enabled). Ensure the PC-LINK cable between the panel and communicator is connected properly (not reversed) and is securely in place.
Yellow LED – 6 Flashes	06	Ethernet Trouble	 Check with your ISP to confirm Internet service is active in your area. Ensure your Ethernet cable is securely inserted into the RJ45 jack of the communicator and the hub/router/switch. Check the link light on the hub/router/switch is ON. If link light is OFF, start the hub/router/switch. If DHCP is used, ensure that the unit has an assigned IP address from the server. In Section [851] [992] verify a valid IP address is programmed. If not, contact the network administrator. If problem persists, replace the Ethernet cable and RJ45 connector.
Yellow LED – 7 Flashes	07	Receiver Not Available	Ensure that the Ethernet path has Internet connectivity. If using a static IP address, confirm that the gateway and subnet mask are entered correctly. If the network has a firewall, ensure the network has the programmed outgoing ports open (default UDP port 3060 and port 3065). Ensure that all the receivers are programmed for DHCP or have the proper IP address and port number.
Yellow LED – 8 Flashes	08	Receiver Supervision Trouble	 This trouble is indicated when supervision is enabled and the unit is not able to successfully communicate with the receiver. If this trouble persists, contact your central station.
Yellow LED - 9 Flashes	09	FTC Trouble	The unit has exhausted all communications attempts to all programmed receivers for events generated by the communicator. Restart the system, if trouble persists, contact your dealer.
Yellow LED – 12 Flashes	0C	Module Configuration Trouble	This indication appears when section [021] system account code or sections [101] or [111] receiver account code have not been programmed. Ensure that a valid account code has been entered in these sections.

Table 6: Trouble indications

Trouble indication	Trouble Indicator Digit	Possible Causes	Trouble Possible Solution
		Initialization Sequence	The unit is still initializing please wait while the unit gets its programming and establishes a connection to all programmed receivers. NOTE: This process may take several minutes to complete.
Red and Yellow LEDs flashing together	N/A	Boot Loader	If the initialization sequence is taking more than several minutes, the boot loader might have failed. Confirm that the boot loader has failed by entering communicator programming [**][8][installer code][851]. If access is granted, continue waiting for the initialization sequence to complete. If access is denied (long error tone), disconnect power from, then reconnect power to the communicator module.

ETHERNET PROGRAMMING OPTIONS

The programming sections described in this document can be viewed at the keypad LCD. To start programming enter: [*][8][installer code][851][section number], where section number is the 3 digit section number referenced in this section. The programming worksheets at the end of this document can be used to record the new values when programming changes have been made from the default values.

ETHERNET PROGRAMMING WORKSHEETS

	minito Workitonieero
System Options	
[001] Ethernet IP Address	[015] DLS Call-Up IP
Default (000.000.000.000)	Default (000.000.000.000)
[002] Ethernet IP Subnet Mask	[016] DLS Call-Up Port
Default (255.255.255.000)	Default (0000) Valid range: 0000 - FFFF.
[003] Ethernet Gateway IP Address	[020] Time Zone
Default (000.000.000.000)	Default (00) Valid range: 00 - 99.
[004] Receiver Supervision Interval	
Default (0087/135) Valid range: 0000 - FFFF.	[021] Account Code
	Default (FFFFFF) Valid range: 000001 - FFFFFE.
[005] System Toggle Options	· · · · · · · · · · · · · · · · · · ·
[1] Ethernet Receiver 1 Supervised Default (OFF).	[022] Communications Format
[[2] Reserved.	· ·
[[3] Supervision Type Default (OFF).	Default (04) Program 03 (CID), 04 (SIA).
[4] Reserved. [5] Reserved.	[OO] Devel Absent Trends
[6] Remote Firmware Upgrade Default (ON).	[023] Panel Absent Trouble
[7] Alternate Test Transmission Default (OFF).	Default (FF); Program 00 disable or FF enable.
[8] Reserved.	
[006] System Toggle Options 2	[024] Panel Absent Trouble Restore
[1] Ethernet Receiver 1 Enabled Default (ON).	Default (FF) Program 00 disable or FF enable.
[2] Ethernet Receiver 2 Enabled Default (ON). [8] Network Trouble Suppression Default (OFF).	
[007] DNS Server IP 1	
Default (000.000.000.000)	System Test Options
	[026] Ethernet 1 Transmission
[008] DNS Server IP 2	Default (FF) Program 00 disable or FF enable.
• •	
Default (000.000.000)	[027] Ethernet 2 Transmission
Programming Ontions	Default (00) Program 00 disable or FF enable.
Programming Options	
[010] System Toggle Options 3	[030] FTC Restore
[1] Reserved. [2] Visual Verification Default (OFF).	Default (FF) Program 00 disable or FF enable.
[2] Visual Verification Berault (OFF).	
[011] Installer Code	[033] Communicator Firmware Update
Default (CAFE) Valid range: 0000 - FFFF.	Begin
	Default (FF) Program 00 disable or FF enable.
[012] DLS Incoming Port	
Default (0BF6/3062) Valid range: 0000 - FFFF.	[034] Communicator Firmware Update
Default (OBF 0/3002) Valid range. 0000 - 1711.	Successful Default (FF) Program 00 disable or FF enable.
[013] DLS Outgoing Port	Default (FF) Frogram of disable of FF chable.
Default (0BFA/3066) Valid range: 0000 - FFFF.	

Default (0BF5/3061) Valid range: 0000 - FFFF.

[105] Ethernet Receiver 1 UDP Local

Default (0BF4/3060) Valid range: 0000 - FFFF.

Port

[2] Reserved.

[4] Reserved.

[6] Reserved.

[7] Reserved.

| [3] Integration Over Ethernet (OFF).

| | [5] Integration Protocol (ON).

[664] Integration Toggle Option 3 [1] UDP Polling (OFF). [2] HTTP Polling (ON). [3] Real-time Notification (ON). [4] Notification Follows Poll (ON). [5] Reserved. [6] Reserved. [7] Reserved. [8] Reserved. [8] Reserved. [8] Reserved. [901] Diagnostic Testing [901] Diagnostic Test Transmission [1] Ethernet 1 Default (OFF). [2] Ethernet 2 Default (OFF). [2] Ethernet 2 Default (OFF). [383] Firmware Update Diagnostics [984] Communicator Status [987] Language Version [988] DNS 1 IP Address [989] DNS 2 IP Address [990] Boot Loader Version [991] Firmware Version [991] Firmware Version [992] Ethernet IP Address [993] Ethernet Gateway Address [998] MAC Address [998] MAC Address	Ethernet Frogramming vvorksheets	
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[999] Software Default

Default (99); Valid entries are 00 or 55

LIMITED WARRANTY

Digital Security Controls (DSC) warrants the original purchaser that for a period of twelve (12) months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period. Digital Security Controls shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Digital Security Controls in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function upon delivery. In such cases, DSC can replace or credit at its option.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- · damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications, or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- · damage from improper maintenance; or
- damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: freight cost to the repair centre; products which are not identified with DSC's product label and lot number or serial number; or products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim.

Access cards or tags returned for replacement under warranty will be credited or replaced at DSC's option. Products not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed

until a valid purchase order is received from the Customer and a Return Merchandise Authorisation number (RMA) is issued by DSC's Customer Service.

Digital Security Controls' liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to

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Out of Warranty Repairs

Digital Security Controls will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which Digital Security Controls determines to be repairable will be repaired and returned. A set fee which Digital Security Controls has predetermined and which may be revised from time to time, will be charged for each unit repaired.

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ARBITRATION - All disputes arising in connection with this Agreement shall be determined by final and binding arbitration in accordance with the Arbitration Act, and the parties agree to be bound by the arbitrator's decision. The place of arbitration shall be Toronto, Canada, and the language of the arbitration shall be English. 7. LIMITED WARRANTY

NO WARRANTY - DSC provides the SOFTWARE 'as is' without warranty. DSC does not warrant that the SOFTWARE will meet your requirements or that operation of the SOFTWARE will be uninterrupted or error free.

CHANGES IN OPERATING ENVIRONMENT - DSC shall not be responsible for problems caused by changes in the operating characteristics of the hardware, or for problems in the interaction of the SOFTWARE with non DSC software or hardware products.

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profiles, loss of the SOF1 WARE or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchasers time, the claims of third parties, including customers, and injury to property.

DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this Software Product to fail to perform as expected.

EN50131 Compliant installations

- The TL280R, TL280 module is monitored by the control panel and it is programmed via the programming menu (* 8, section [851] in the control panel. The interface is connected to the PC-Link bus as shown in the diagram included in this manual.
- The Ethernet port is protected against surge transients up to 2.5kV and it is immune to conducted and radiated RF fields with levels up to 10V/m as tested per EN50130-4 Standard.
- The TL280R, TL280 module conforms with radiated emissions levels for Class B equipment as per standards EN61000-6-3/ EN55022/CISPR22.
- 4. The TL280R, TL280 module uses AES128 encryption and heartbeat supervision for both the Ethernet communication path and it meets security levels S2 as per EN50136-2-1 (EN50131-1). It also uses authentication for each message exchanged with the compatible receiver equipment at ARC and it meets level 12 for information security.
- 5. The TL280R, TL280 module has only one communication path: Ethernet 10/100BaseT using Internet/Intranet network.

TL280 and TL280R have been certified by Telefication in accordance with EN50131-1 requirements for Grade 2, Class II and ATS Class 3,4,5.

Hereby, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The complete R&TTE Declaration of Conformity can be found at $\frac{1}{100} \frac{1}{100} \frac{$

(CZE) DSC jako výrobce prohlašuje, že tento výrobek je v souladu se všemi relevantními požadavky směrnice 1999/5/EC.

(DAN) DSC erklærer herved at denne komponenten overholder alle viktige krav samt andre bestemmelser gitt i direktiv 1999/5/EC.

(DUT) Hierbij verklaart DSC dat dit toestel in overeenstemming is met de eisen en bepalingen van richtlijn 1999/5/EC.

(FIN) DSC vakuutaa laitteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset. (FRE) Par la présente, DSC déclare que ce dispositif est conforme aux exigences essentielles et autres stipulations pertinentes de la Directive 1999/5/EC.

(GER) Hierdurch erklärt DSC, daß dieses Gerät den erforderlichen Bedingungen und Vorrausetzungen der Richtlinie 1999/5/EC entspricht.

(GRE) Δία του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιώδης απαιτήσεις και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC (ITA) Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni rilevanti relative alla Direttiva 1999/05/CC

(NOR) DSC erklærer at denne enheten er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

(POL) DSC oświadcza, że urządzenie jest w zgodności z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.

(POR) Por este meio, a DSC, declara que este equipamento está em conformidade com os requisitos essenciais e outras determinações relevantes da Directiva 1999/5/EC.

(SPA) Por la presente, DSC, declara que este equipo está en conformidad con los requisitos esenciales y otros requisitos relevantes de la Directiva 1999/5/EC.

(SWE) DSC bekräftar härmed att denna apparat uppfyller de väsentliga kraven och andra relevanta bestämmelser i Direktivet 1999/5/EC.





From Tyco Security Products

Tech Support: 905-760-3000

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