

SOLOTool is a portable, hand-held operator terminal primarily for use with the Auto-Matrix family of direct digital controllers. SOLOTool networks to unit controllers via Public Unitary Protocol™ (PUP), a nonproprietary communications protocol in the public domain. In addition, SOLOTool can network to unit controllers manufactured by other vendors who support PUP.

SOLOTool acts as a network administrator for networked PUP units and can perform a variety of monitoring and programming operations. The product has a 20-key keypad for entering information and a 4-line × 20-column liquid-crystal-display (LCD) for displaying menus and data.

FEATURES

- ▼ Compatible with Auto-Matrix direct digital controllers
- ▼ Compatible with PUP devices manufactured by other vendors
- ▼ Hand-held and portable
- ▼ Menu-driven operation
- ▼ 20-key keypad for data entry
- ▼ 4-line × 20-column LCD for menu and data display
- ▼ RJ-11 or pluggable terminal connections
- ▼ Reliable high-speed communications over twisted pair (EIA-485)

NETWORKING

- ▼ **Line signaling:** EIA-485
- ▼ **Network protection:** dual tranzorbs
- ▼ **Communications speed:** 1,200bps to 38.4Kbps baud, programmable
- ▼ **Network configuration:** multidrop, up to 5,000ft. (1.5km) total
- ▼ **Protocol:** PUP

SOLOTool connects to PUP networks in several ways. It has an RJ-11 connector to plug into the SOLOStat room monitoring module. It also has two network screw terminals that can either connect to an Auto-Matrix unit controller or directly to the two-wire communications network. With this variety of interface capabilities, SOLOTool can be temporarily plugged into the network or permanently wired for monitoring and control.

SOLOTool can communicate as a peer on a PUP network with other PUP master devices such as SAGE^{MAX} and SF1™ field panels, or GX1™ and DX1™ direct digital controllers. The terminal operates by token-passing, a communication scheme that allows peer units on the network to effectively share network resources.

When SOLOTool connects to the PUP network, it can perform a variety of functions, including:

▼ Examine/modify attributes of networked controllers

The operator can connect to a particular direct digital controller on the network by entering either the programmed unit number or the hardware serial number. Once connected to a particular direct digital controller, the operator can then select menu functions—up to eight different types per direct digital controller—to access data such as temperature or airflow setpoints. By scrolling through lists of attributes, the operator can monitor or change values. To access attributes not present in the menu functions, the operator can directly enter PUP channel numbers.



SOLOTool™

▼ Alarm handling

The SOLOTool can poll networked PUP units for alarms. The device maintains a list of alarm messages—each of which contains the PUP unit number, transaction code, alarm class, and alarm message.

▼ Item recording

SOLOTool can record changes made to attributes of a networked unit and can then play back those changes to other networked units. For example if certain setpoint values need to be sent to a number of controllers, this operation can be recorded on one unit. The recorded changes can then be repeated for other units.

Dimensions

▼ **Overall size:** overall size: 7.2 × 4.2 × 1.2in. (18.3 × 10.7 × 3.0cm)

▼ **Shipping weight:** shipping weight: 1.5lb. (0.7kg)

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SPECIFICATIONS

Terminations

- ▼ Pluggable 0.2 in. (5.1mm) terminal blocks for network connection
- ▼ RJ-11 jack for SOLOStat connection

Display

- ▼ Backlit LCD

Keypad

- ▼ 20 keys: 4 rows × 5 columns

Power

- ▼ Two Nickel/Cadmium (NiCad) C batteries or 120V ac power adapter. The SOLOTool will display a warning message if the battery power drops too low.

The SOLOTool acts as a network administrator for direct digital controllers and other PUP units on the network, and provides a variety of monitoring and programming capabilities.

Operating Environment

- ▼ **Temperature range:** 32 to 104°F (0 to 40°C)
- ▼ **Humidity range:** 0 to 95% RH noncondensing

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