

ROC800 ROC Keypad Display

The ROC Keypad Display provides access to the process and operational information contained in a ROC800-Series 1 or Series 2 Remote Operations Controller (ROC800). It allows you to view and change parameters in the ROC800.

Keypad

The keypad has twenty-five multi-function keys. You can browse through lists and screens, type text, and enter numeric values using the ROC Keypad Display. Changes take effect immediately in the ROC800.

Display

The ROC Keypad Display contains two, 8-line by 21-character liquid crystal displays (LCDs) with user-configurable backlighting. When powered-up, the ROC Keypad Display shows ROC800 values in real-time.

Connections to ROC800

The ROC800 communicates with the ROC Keypad Display through any EIA-232 (RS-232) port on the ROC800 unit. The ROC Keypad Display requires 10 to 30 Volts dc and can be powered by the ROC800's power module or an external power source.

Screens

Easy-to-navigate menus and screens allow access to the most commonly used parameters. You can add, delete, and modify screens using ROCLINK™ 800 configuration software.

Information is organized and displayed by the ROC Keypad Display on both LCDs. The main display shows default Point Type/Logical/Parameter (TLP) items and their values and actions. The default screens provide the following:

- Input/Output (I/O) information.
- ROC system parameters.

- Proportion, Integral, and Derivative (PID) loop information.
- Event Log information.
- Alarm log information.
- Meter run and station information.
- Plate changes.
- Calibrations.

The ROC Keypad Display also displays user-defined point types which are used with User C programs.

Security is provided by the ROC Keypad Display to control user access to information. Users are placed in "groups" having an assigned access level. Within each group, individuals can be assigned an additional level of access that overrides the group access level. Screens can be customized to allow users to view and edit parameters, view parameters only, or have no display access based on their group or individual access level. Typically, group or individual access is assigned based on job function. Each user within a group assumes the group's access level. However, an individual user can be granted or denied access to a specific display screen based on their individual access level.



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Screens and menu structures can be saved to a file (on a PC running ROCLINK 800 configuration software) for later use or review.

Mounting

The ROC Keypad Display has CSA Class I, Division 2 approval and can be mounted on a panel or in a Type 4 enclosure. The gasket on the back of the ROC Keypad Display unit provides a seal against an enclosure wall or door.


Option

The ROC Keypad Display may be installed with an optional visor for use in high glare applications.

Device Security

To secure your valuable process and data, you can login using the standard three-character username and four-character password. However, users who have opted the enhanced security features available in ROC800 firmware version 3.90 and ROC800L firmware version 1.70 must use an 8-digit PIN to login. The PIN feature is only available in the Keypad Display user program version 1.05 or higher.

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| Communications | | |
|--|---|---|
| Type | EIA-232 (RS-232), maximum cable length of 15 m (50 ft) | |
| Power | | |
| Input Power | 1.2 W maximum, supplied by ROC or other power source | |
| Input Voltage | 10 to 30 Vdc | |
| Physical | | |
| Display | Two, 8-line by 21-character LCD display with user-configurable backlighting. Each display is 128 x 64 pixels. | |
| Keypad | 25 touchpad keys | |
| LEDs | Two. One for Shift/Alt Function (Red, Blue, and Off) and one reserved for future use. | |
| Housing | PC/Acrylic alloy, UV stabilized | |
| Dimensions | 235 mm H x 134 mm W x 42 mm D (9.25 in. H x 5.25 in. W x 1.64 in. D) | |
| Weight | 0.84 kg (1.85 lb), without optional visor 0.95 kg (2.1 lb), with optional visor | |
| Mounting | Suitable for Panel or Enclosure mounting | |
| Environmental | | |
| Operating Temperature | -20 to 70 °C (-4 to 158 °F) | |
| Storage Temperature | -30 to 85 °C (-22 to 185 °F) | |
| Operating Humidity | 0 to 95% relative humidity, non-condensing | |
| Radiated/Conducted Transmissions | Meets the requirements of IEC 61326 Electrical equipment for use in industrial locations | |
| Radiated Emissions | Meets FCC Part 15, Class A. | |
| Approvals | | |
| Product Markings for Hazardous Locations | CSA CUS | Class I, Division 2, Groups A, B, C, and D. Type 4 rating when installed on enclosure per included instructions sheet Form A6164. |
| | RoHS2 | RoHS (2) EU Directive 2011/65/EU: This product may be considered out-of-scope when used for the intended design purpose in a Large Scale Fixed Installation (LSFI). Consult https://www.emerson.com/compliance for up-to-date product information. |
| | RoHS (China) |  |

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