

Ace Instruments 800XC

Ace Instruments Selec 800XC Analog DIN Rail Timer

Model: 800XC
User Instruction Manual

INTRODUCTION

The Ace Instruments Selec 800XC is an analog DIN rail timer designed for various industrial and commercial applications requiring precise time control. This device features cyclic operation with unequal ON and OFF times, offering versatility across six distinct time ranges. It supports a universal supply voltage and includes LED indicators for power and relay status, ensuring clear operational feedback. The timer is suitable for both DIN rail and back panel mounting and incorporates finger-safe terminals for enhanced safety.

This manual provides detailed instructions for the proper installation, operation, maintenance, and troubleshooting of your Selec 800XC timer.

KEY FEATURES

- Cyclic operation with independent ON and OFF time settings.
- Six selectable time ranges for flexible application.
- Universal supply voltage compatibility (AC/DC).
- LED indicators for Power ON and Relay ON status.
- Designed for DIN rail or back panel mounting.
- Equipped with finger-safe terminals for user protection.
- DPDT (2 C/O) output contact.

SETUP AND INSTALLATION

Before installation, ensure the power supply is disconnected to prevent electrical shock. The Selec 800XC timer can be mounted on a standard DIN rail or directly onto a back panel.

Mounting

DIN Rail Mounting: Snap the timer onto a 35mm DIN rail by aligning the clips and pressing firmly until it locks into place.

Back Panel Mounting: Use appropriate screws to secure the timer to a flat surface via the designated mounting holes (if applicable, refer to product diagram for exact locations).

Wiring

The Selec 800XC features finger-safe terminals. Connect the power supply and load according to the wiring diagram provided on the unit or in the detailed product documentation. Ensure all connections are secure.

- **Supply Voltage:** Connect the universal supply voltage (20 to 240V AC (50/60Hz) or 12 to 240V DC) to the designated power terminals.
- **Output Contact:** The timer provides DPDT (Double Pole Double Throw) contacts. Connect your load to the appropriate normally open (NO) or normally closed (NC) terminals as required by your application. The contact rating is 5A @ 230V AC / 24V DC, resistive.



Image: The Selec 800XC Analog DIN Rail Timer, showing its compact design suitable for DIN rail mounting and terminal connections.

OPERATING INSTRUCTIONS

Once the timer is correctly installed and wired, power can be applied. The timer's operation is controlled by setting the ON and OFF times and selecting the desired mode.

Setting Time Ranges

The Selec 800XC offers six time ranges for both ON and OFF cycles. These are typically set using rotary switches or

potentiometers on the front panel of the device. Refer to the markings on your specific unit for precise adjustment.

- **ON Time Ranges:** 0 - 1 sec / min / hr, and 0 - 10 sec / min / hr.
- **OFF Time Ranges:** 0 - 1 sec / min / hr, and 0 - 10 sec / min / hr.

Adjust the ON and OFF time settings to your desired duration within the selected range. The accuracy for setting is $\pm 5\%$ of Full Scale (FS), and repeat accuracy is $\pm 0.5\%$ or 50 msec.

Operating Modes

The timer supports cyclic operation with two primary modes:

- **Cyclic ON first:** The timer will initiate with the ON cycle, followed by the OFF cycle, and then repeat.
- **Cyclic OFF first:** The timer will initiate with the OFF cycle, followed by the ON cycle, and then repeat.

Select the desired mode using the designated switch or setting on the timer.

LED Status Indicators

The timer is equipped with LED indicators to provide visual feedback on its status:

- **Power ON LED:** Illuminates when the timer is receiving power.
- **Relay ON LED:** Illuminates when the output relay is energized (contacts are switched).

MAINTENANCE

The Selec 800XC timer is designed for reliable operation with minimal maintenance. Adhering to the following guidelines will help ensure its longevity and performance:

- **Cleaning:** Keep the timer clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the timer operates within its specified environmental limits. The operating temperature range is 0°C to 50°C (32°F to 122°F), and storage temperature is -20°C to 75°C (-4°F to 167°F). Humidity should be non-condensing, up to 95% RH.
- **Connections:** Periodically check all wiring connections to ensure they remain tight and secure. Loose connections can lead to intermittent operation or damage.
- **Inspection:** Visually inspect the timer for any signs of physical damage or overheating.

TROUBLESHOOTING

If you encounter issues with your Selec 800XC timer, consider the following troubleshooting steps:

- **Timer Not Powering On:**
 - Check the power supply voltage to ensure it is within the specified range (20-240V AC or 12-240V DC).
 - Verify that the power connections to the timer are correct and secure.
 - Ensure the circuit breaker or fuse supplying power to the timer is not tripped or blown.
- **Relay Not Activating/Deactivating:**
 - Confirm that the ON and OFF time settings are correctly configured and within the selected range.
 - Check the operating mode (Cyclic ON first/OFF first) to ensure it matches your intended sequence.
 - Inspect the load connected to the output contacts for any faults or short circuits.
 - Verify that the output contact wiring is correct.

- **Inaccurate Timing:**
 - Ensure the selected time range is appropriate for the desired duration.
 - Recalibrate the time settings if necessary, considering the $\pm 5\%$ setting accuracy.
- **Reset Function:** The timer will reset upon interruption of power. The reset time is less than 100 msec. If unexpected resets occur, check for unstable power supply.

If problems persist after performing these checks, contact technical support.

SPECIFICATIONS

Parameter	Specification
Model	800XC
Supply Voltage	20 to 240V AC (50 / 60Hz), 12 to 240V DC
Power Consumption	2VA max
Output Contact	DPDT (2 C/O)
Contact Rating	5A @ 230V AC / 24V DC, resistive
Time Ranges (ON Time)	0 - 1 sec / min / hr, 0 - 10 sec / min / hr
Time Ranges (OFF Time)	0 - 1 sec / min / hr, 0 - 10 sec / min / hr
Accuracy (Setting)	$\pm 5\%$ of FS (Full Scale)
Accuracy (Repeat)	$\pm 0.5\%$ or 50 msec
Reset Time	< 100 msec (on power interruption)
Operating Modes	Cyclic ON first or OFF first
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 75°C (-4°F to 167°F)
Humidity	95% RH (non-condensing)
Mounting	DIN Rail / Back Panel Mount
Terminals	Finger Safe Terminals

WARRANTY INFORMATION

Specific warranty terms and conditions for the Ace Instruments Selec 800XC Analog DIN Rail Timer are typically provided at the point of purchase or with the product packaging. Please refer to your purchase documentation or contact Ace Instruments directly for detailed warranty information, including coverage period and claim procedures.

SUPPORT

For technical assistance, product inquiries, or support regarding your Selec 800XC timer, please contact Ace Instruments customer service or your authorized distributor. When contacting support, please have your product model number

(800XC) and any relevant purchase details available.

You may find contact information on the manufacturer's official website or on your product packaging.

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