

## Signet 9900 Batch Module Instruction Sheet



3-9900.097 Rev. 5 05/20 English

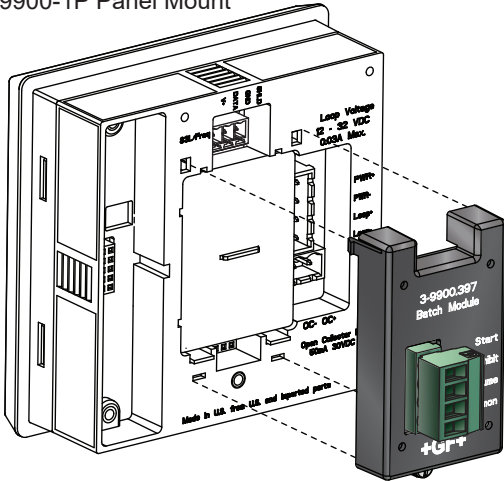


To convert a Signet 3-9900-1P Transmitter (Generation II or greater) into a Batch Controller System, the 3-9900.397 Batch Module and 3-9900.393 Relay Module must be used. **Note:** Verify 9900 Transmitter version level under the OPTIONS Menu.

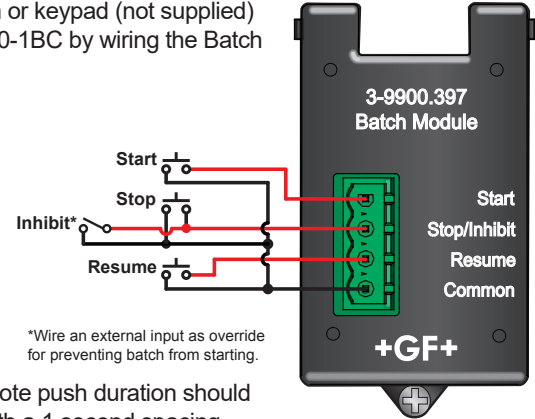


- English
- Deutsch
- Français
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### 3-9900-1P Panel Mount



Connect an external button or keypad (not supplied) to remotely control the 9900-1BC by wiring the Batch Module as shown.



**NOTE:** The minimum remote push duration should be 0.5 seconds with a 1 second spacing between button pushes.



### CAUTION:

In the event of a power failure, please review the batch settings before resuming a batch. Failure to do so could result in an overflow of the container.



### CAUTION:

Exercise care when installing module. Do not bend connecting pins. Align pins and connectors then push module firmly into place, then attach with screw.



### CAUTION:

DO NOT bundle Relay Module wiring with other wiring. Doing so may cause injury and/or damage to 9900 Transmitter, Relay Module, and Batch Module.



### Avoid Electrostatic Discharge (ESD):

Minimize handling of module to reduce the possibility of damage due to ESD. Handle module by the edges. Never touch any exposed circuitry or contacts. Wear an anti-static wristband or stand on an anti-static mat, or keep one hand touching a properly grounded pipe or other properly grounded piece of metal when handling module.

The 3-9900.397 Batch Module is only compatible with the 3-9900-1P Panel Mount Transmitter (Generation II or greater). The Panel Mount unit can be installed in the optional Wall Mount Accessory 3-9900.392 (159 001 700) for field mount installation, or with either of the Rear Enclosure Kits, 3-9900.399-1 (159 001 8340) Hinged Cover, or 3-9900.399-2 (159 001 835) Flat Cover.

### Installation:

Install the Batch Module and Relay Module to the 9900 prior to mounting the 9900 transmitter. Complete all wiring to terminal plugs prior to installing these plugs into the 9900, Batch Module or Relay Module. The Batch module plugs in and attaches with a screw.

1. Remove terminals from the receptacle of each plug-in module prior to installation.
2. It may be helpful to use a standard screwdriver to gently pry removable terminals away from the receptacle on the plug-in modules.
3. Strip 10 mm to 12 mm (0.4 in. to 0.5 in.) of insulation from wire tips and tin bare ends to eliminate fraying.

4. Insert wire tip or ferrule completely into the terminal and secure with the screw.
  - Terminals accept up to 14 AWG wire.
  - Do not allow any AC leads that may be connected to the internal relays to come in contact with low voltage wiring.



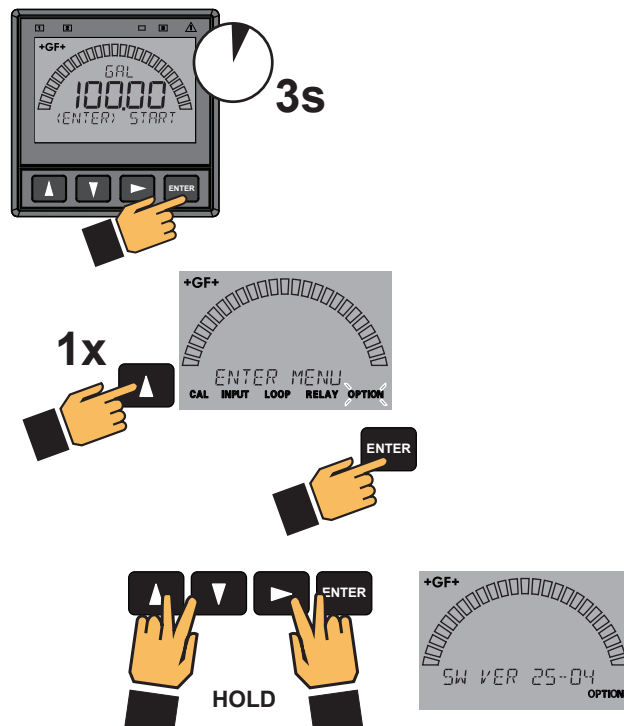
Georg Fischer Signet strongly recommends against the use of 4 to 20 mA current loop controlled devices, such as actuated valves, for use as Batch control elements. On power up the 9900 current loop will supply a 12 mA signal on the current loop output while the system initializes, if an error occurs, such as a missing Digital (S<sup>3</sup>L) sensor or overrun, the current loop will go to the error current of 3.6 or 22 mA. Improper programming of the loop completion current or the loop error current can cause unintended actuation of the current loop controlled device. These can cause an unexpected discharge of material from the batch system.



Proper operation of the batch module requires Generation II, version 25-04 software in the 9900 Transmitter. To determine the software version of the 9900 Transmitter, please see instructions below. If your unit has an older version of software, please contact your local GF sales office for upgrade instructions.

Instructions for determining the version of the 9900:

1. Press and Hold the Enter key until the ENTER MENU screen is displayed.
2. Press the Up arrow key once, the OPTION item should be blinking.
3. Press the Enter key to navigate to the Option screen.
4. Simultaneously press and hold all four buttons (Up, Down, Right Arrows and Enter)
5. The screen will change and show "SW VER 25 – 04"
6. If the software version is less than 25-04, please contact your local GF sales office for upgrade information.



## Ordering Information

Mfr. Part No.	Code	Description
3-9900.397	159 310 163	Batch Module
3-9900.393	159 001 698	Relay Module -2 DCR (dry-contact relays)
6682-1103	159 001 711	Relay Module Plug, 4 Pos, Right Angle
6682-1104	159 001 712	Loop Power Plug, 4 Pos, Right Angle

Full 9900-1BC Batch Controller System manual available at [www.gfsignet.com](http://www.gfsignet.com)



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