Signet 5600 Batch Controller

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Member of the ProPoint™ Family of Monitors

Analog dial displays batch process; Digital LCD Displays Totalizer

Description

The Signet 5600 Batch Controller provides control capability and process fine-tuning in a familiar package. The programming interface uses a four-button keypad and an intuitive procedure for adjusting a batching system to the best performance possible.

The standard 1/4 DIN package houses an analog display panel that features a batch status indicator with count-up or count-down dials. The backlit LCD displays flow rate and volume information and batch status, as well as calibration and set-up instructions. The front of the unit is NEMA 4X/IP65 and is hard-coated, high-impact and UV resistant polycarbonate.

The 5600 operates on 12 to 24 Volts, either AC or DC. Removable terminal connections make wiring the 5600 easy. Connect any Signet flow sensor with a frequency output, then add connections to two relays for two-stage shut-down or overrun alarm functions, connect a remote start-stop switch and use the end-of-batch pulse to trigger the next step in the process. A 4 to 20mA output is also available. Advanced features include a user-set security code, an automatic calibration option, and overrun compensation.

Features
- **Permanent and Re-settable Totalizers**
- **Non-volatile memory**
- **Easy Batch Volume Entry**
- **Remote Start, Stop & Resume**
- **Two-Stage Shutdown Control**
- **Manual or Automatic Overrun Compensation**
- **Estimates Time to Batch Completion**
- **Overrun Alarm and Missing Signal Alarm**
- **Advanced Valve Control**
- **End-of-batch trigger**
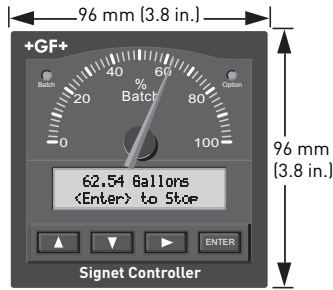- **Count-up or count-down to batch completion**

Applications
- **Batch Processes**
- **Filter Backwash Initiation**
- **Chemical Addition**
- **Canning & Bottling**

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MEASURING EQUIPMENT
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System Overview

Panel Mount

Signet 5600 Flow Instrument (includes mounting bracket and panel gasket)

Signet Flow Sensor (sold separately)

| 515, 2536 | 525 | 2517, 2540 | 2100 | 2000 | 2507 | 7000 | 2537 | 2551 | 2552* |

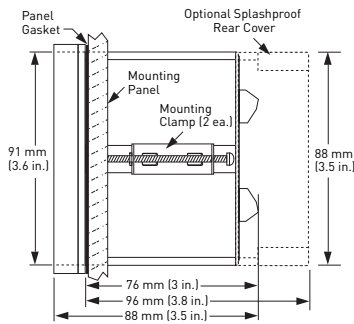Signet Fittings or end connectors as required (sold separately)

*Contact your local Georg Fischer Sales Office for availability

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Dimensions

Front View

SIDE VIEW

Specifications

General
Operating Range:
  0.5 Hz to 10 kHz, optically isolated
Display:
- Analog:
  Reversible dial - 0 to 100% or 100 to 0%
- Digital:
  Backlit LCD, 2 x 16 alphanumeric character
- Batch Size:
  0 to 999,999 engineering units
- Dual Totalizer: 8-digit resettable and
  non-resettable

Materials
- Enclosure: ABS Plastic
- Keypad: Silicone Rubber
- Panel and case gasket: Neoprene
- Window: Hard-coated polycarbonate

Electrical
Power Requirements:
  12 to 24 Volts, AC or DC, unregulated,
  50 to 60 Hz, 10W max.

Current Output
- 4 to 20 mA, non-isolated, active, internally
  powered
- Loop impedance:
    350Ω max. @ 12V
    950Ω max. @ 24V
- Accuracy: ± 0.1%
- Configurations:
  Batch completion, valve control, or
  end of batch

Electrical (continued)
Alarm Contacts
- Two SPDT relays:
    5A @ 30VDC
    5A @ 125VAC
    3A @ 250VAC max.
- Batch: Batch in progress
- Option:
    Two-stage shutdown, overrun
    alarm, end of batch, or missing
    signal alarm
- Additional Functions:
  End of batch pulse, remote start,
  stop & resume
- Accuracy: ± 0.5% of reading

Environmental
Rating: NEMA 4X/IP65
Operating temperature:
  -10 to 55° C (14 to 131 °F)
Relative humidity:
  0 to 95%, non-condensing

Shipping Weight: 0.8 kg (1.8 lbs.)

Standards and Approvals
- CE, UL, CUL
- Manufactured under ISO 9001:2000
  for Quality and ISO 14001:2004 for
  Environmental Management

Ordering Information

Mfr. Part No.	Code	Description
3-5600	**198 825 006**	Batch Controller

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Mounting		
3-5000.395	**198 840 227**	Splashproof rear cover kit
3-5000.399	**198 840 224**	5 x 5 inch adapter plate for Signet retrofit
3-5000.598	**198 840 225**	Surface mount bracket
3-0000. 596	**159 000 641**	Heavy duty wall mount bracket
Liquid tight connectors		
3-9000.392	**159 000 368**	Liquid tight connector kit for rear cover (includes 3 connectors)
3-9000.392-1	**159 000 839**	Liquid tight connector kit, NPT (1 piece)
3-9000.392-2	**159 000 841**	Liquid tight connector kit, PG13.5 (1 piece)
Replacement Parts		
3-5000.390	**159 000 323**	Installation Kit (ProPoint screws, clamps, and mounting template)
3-5000.397	**159 000 326**	5000 Series Window kit (window, keypad, & screw)
3-5000.525-1	**198 840 226**	Bezel, 5000 Series
3-5600.360	**159 000 887**	Replacement Dial
3-5500.611	**198 840 230**	Unit tags
Other		
3-5000.398	**159 000 646**	Protective Overlay kit (10 pcs.)
3-5000.075	**159 000 321**	110V/24VAC Transformer
3-8050.396	**159 000 617**	RC Filter Kit (for relay use)

**Model 5600
Ordering Notes:**

1) Panel cutout should be 92 x 92 mm (3.62 x 3.62 in.)

2) A reversible dial is included and is scaled from 0 to 100 and 100 to 0.

3) An optional splash proof rear cover can be ordered separately if needed for most environments.

Please refer to Wiring, Installation, and Accessories sections for more information.