

Sneak Preview! NEW Dual Channel 9950

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Pre-Launch: Signet 9950 Dual Channel Transmitter

It's no longer a rumor; the newest member to the SmartPro family of multi-parameter instrumentation is coming very soon! Here is a sneak preview of the NEW 9950 Dual Channel Transmitter, with the setup ease of a transmitter and the versatility of a controller.

The 9950 is packed full of standard features and options, allowing it to perform with greater flexibility than any previous Signet instrument. By using a state-of-the-art dot matrix display, it offers easy viewing and simplified menus. Combine this with the ability to be AC or DC powered and the fact that the 9950 accepts frequency, digital (S3L) and binary inputs, along with an on-board clock and calendar allows for countless new application opportunities.

Just to name a few highlights—after all, this is just a sneak preview—the 9950 includes advanced features such as derived functions, advanced multiple relay modes, and timer-based relay functions. Derived functions allows for the control of a relay or current loop with the sum, delta (difference), or ratio of two measurements, for example, delta pressure and delta temperature. Multiple relay modes allow up to three signals to be used for the control of a single relay; this can be any combination of analog and binary inputs. The timer relay modes allow the relay to be activated on a repeating basis from every minute to once every 30 days. Weekday timer mode allows a relay to be turned on a specific day or days of the week at a specific time.

See the enclosed data sheet and share with your key customers. We will be unveiling to the world the new dual-channel transmitter/controller in September. GF is working with your management team to build inventory so you can accept and deliver orders in September.

In addition to the data sheet specifications, here are some additional feature explanations.



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Features

- Independent Dual Channel Multi-Parameter Flow, pH/ORP, Conductivity/Resistivity, Pressure, Temperature, Level/Volume, Salinity, Dissolved Oxygen, Other (4 to 20 mA)
- Available in two voltage options: 10.8-35.2 VDC, or selectable 100-240 VAC/10.8-35.2 VDC
- 2 Passive 4-20 mA Loop Outputs Standard, freely assignable either channel, primary or secondary measurements, or proportional for metering pumps
- Choice of 3 different relay modules:
 - 3-9950.393-1, module with 4 SPDT mechanical relays (For alarms, pulsing, or Boolean functions)
 - 3-9950.393-2, module with 2 mechanical and 2 solid state relays
 - 3-9950.393-3, module with 2 mechanical relays and 4 Binary "inputs" (Binary inputs can come from level switches, pressure switches, flow switches, temperature switches, optical switches, proximity switches, etcetera). These 4 Binary inputs are in addition to the two primary sensor inputs.
- Advanced Boolean Relay Logic – There are four logic options to choose from:
 - **(A | B | C)** means "Activate this relay when any condition (A, B, or C) is true."
E.g., pump protection: Turn off pump if there's a Low Flow, or High Flow, or High Temperature condition.
 - **(A & B & C)** means "Activate this relay when only all conditions (A, B, and C) are true."
E.g., acid neutralization (batch treat): Low pH and Hi Level, and incoming Flow, triggers actuated 3-way diverter valve to separate holding tank.
 - **(A | (B & C))** means "Activate this relay if A is true OR if B AND C are both true."
E.g., Level Control: Hi Continuous level transmitter for controlling with point level switches for alarms. Hi Binary and Hi/Hi Binary. If level transmitter is outputting Hi level OR if both point level switches are HI this activates alarm providing redundancy and safety.
 - **(A & (B | C))** means "Activate this relay only if A is true AND either B or C are also true."
E.g., Rinse Tank Control: Machine is on, and Lo Level, or Hi Conductivity, activates water fill valve.
- Derived Functions with examples: Can be used for Relay and Analog Outputs, Ratio (measurement 1 divided by measurement 2), Difference (measurement 1 minus measurement 2, including Delta P and Delta T measurements), Sum (measurement 1 plus measurement 2), % Rejection (Reverse Osmosis Conductivity, feed and permeate), % Recovery (Reverse Osmosis flow, feed and permeate). NOTE for the Divide, Plus, and Minus, use math symbols. Also please bold each function Ratio, Difference, etc.
- Onboard Clock and Calendar for Scheduled Events offers so many possibilities for scheduling a relay event, perhaps actuating a valve for sampling, injection, emptying, or diverting. There are two Timer Modes (period and weekday). The Period Mode allows for reoccurring relay activation on Start Date and Time, plus more. The Weekday Mode supports a specific time and multiple days of the week.

If you have any questions or need additional information, please contact your Area Sales Manager or Inside Sales. Thank you for your continued support of GF Piping Systems!