Adaptability and Versatility

Signet 9900 SmartPro™ Transmitter

One transmitter for multiple measurements

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GEORG FISCHER
PIPING SYSTEMS

Features

We streamlined and optimized the 9900 Transmitter's functions

- Multi-parameter input selection
- Large auto-sensing backlit display, at-a-glance visibility; displays separate lines for the units, main and secondary measurements
- Dial-type digital bar graph
- Intuitive and user-friendly interface consistent with legacy Signet ProPoint® and ProcessPro® devices
- Custom 13-character label capabilities for the instrument type

System

Mechanical Relay Indicator LED

Backlight Sensor

Mechanical Relay LED Indicator

Error Indicator

Open Collector (R1) Indicator LED

Bar Graph

Units of Measure

Value

Label

Menu Navigation Keys

Available in Panel or Field Mounts

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to provide value-added attributes built specifically for your needs.

- Selectable current outputs (3.6 mA or 22 mA) to indicate error condition
- 4-20mA input (with optional 8058 i-Go™ Signal Converter)
- Warning LED indicator
- Factory default reset capability
- Optional Field upgradable relays
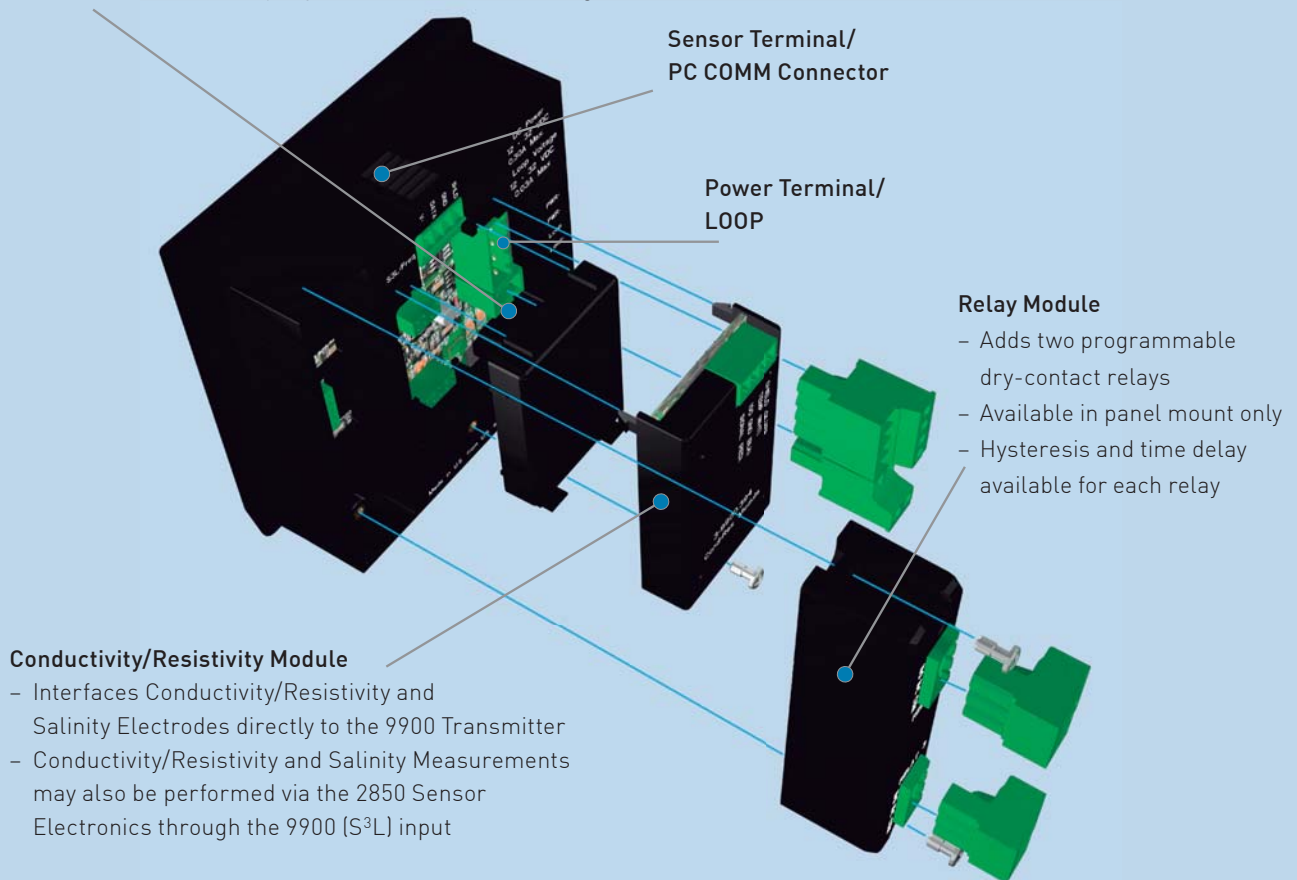- Optional H COMM Module for two-way communication

Overview

H COMM Module
- Allows communication between the 9900 Transmitter and any HART® enabled device
- Allows access to Primary and Secondary measurements remotely
- Allows user to remotely adjust the 4 and 20 mA settings

PC COMM Module
- Enables configuration and programming from a PC
- Settings from one 9900 Transmitter can be saved to a PC and applied to future installations
- Compatible with Windows 7, Vista and XP

**Sensor Terminal/
PC COMM Connector**

**Power Terminal/
LOOP**

Relay Module
- Adds two programmable dry-contact relays
- Available in panel mount only
- Hysteresis and time delay available for each relay

Conductivity/Resistivity Module
- Interfaces Conductivity/Resistivity and Salinity Electrodes directly to the 9900 Transmitter
- Conductivity/Resistivity and Salinity Measurements may also be performed via the 2850 Sensor Electronics through the 9900 (S³L) input

Benefits

Putting your needs first is our priority, and the 9900 offering provides solutions to customers' dynamic requirements by providing

- One 9900 can be used for all Signet sensors solutions as well as with other sensors in the market with a 4-20mA output.
- Drastic reduction of part numbers simplifies the ordering process for customers and optimizes inventory levels.
- Intuitive user interface that is consistent with legacy instruments makes programming easier for the user and reduces dependence on the user manual.

System

9900 Transmitter – Panel and Field Mount

Flexibility
One instrument for multiple measurements. Designed for complete flexibility, plug-in modules allow the unit to easily adapt to meet changing customer needs. Optional modules include Relay, Direct Conductivity/Resistivity, H COMM, a PC COMM configuration tool, and an 8058 converter.

At-a-Glance Visibility
The highly illuminated display and extra large (3.90" x 3.90") auto-sensing backlit display can be viewed at 4-5 times the distance over traditional transmitters. Large characters are easily visible even in dark conditions. The display shows separate lines for units, main and secondary measurements as well as a dial-type digital bar graph.

Quick and Easy Installation
The intuitive menu system is consistent with ProcessPro® and ProPoint® transmitters.
With our PC COMM configuration tool you can easily set up the parameters on your laptop.

i-Go™ 8058 Signal Converter

Relay Module

Direct Conductivity/Resistivity Module

H COMM Module

0251 Configuration Tool

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an innovative and intuitive design, with many value-added benefits such as simplicity, economy, and reliability.

- Visibility from afar as well as in dark environments is achieved using the enhanced large backlit display.
- Custom label makes identification of the instrument easy allowing customers to match the external label (on panel, pipe, or wall) with the label programmed in the instrument.
- Modular design leads to cost savings due to replaceable components and allows users to add functionality in the future with ease.
- PC Configuration Tool allows users to fully configure one or many 9900 devices, quickly and easily. Configurations can be saved to a file and reused to clone multiple devices that require the same configuration.

Overview

9900 Field Mount Transmitter
Field mounting requires a separate mounting kit. The 3-8050 Universal Mount Kit, the 3-8051 or 8052 Integral Mount Kits, and the Angle Adjustment Adapter Kit enable the transmitter to be installed virtually anywhere.

Angle Adjustment Adapter Kit
The angle adjustment adapter kit quickly and easily converts your 9900 Field Mount Transmitter to a 25° angle. This accessory enhances the versatility of the 9900 Field Mount Transmitter. Use one or many of these angles adapters to provide larger angles. Can be used to angle the display upward for installations near the ground or face the display down for installations that are above eye level.

Mounting Kits

3-8050

3-8051

3-8052

Instrument Comparison

Product enhancements are expected in new generations of products, and the new Signet 9900 SmartPro™ Family of Transmitters offers just that.

✓ – = Feature available, but with exception

Category	Feature	ProPoint	ProcessPro (-1x, 2x)	9900
User Interface	Custom identification labeling			✓
User Interface	Large display	✓		✓
User Interface	Backlit display	✓		✓
User Interface	Visibility distance	Better	Good	Best
User Interface	Display protection	Polycarbonate	Polycarbonate	Glass
User Interface	Tactile button feedback	✓	✓	✓
User Interface	Factory reset feature			✓
Tools	9900 configuration software via PC software			✓
Stocking	Shelf space required	Medium	Large	Small
Security	Additional custom 4-digit password			✓
Power	12 to 32 VDC input power range			✓
Outputs	Relay functionality (panel mount only)	Good	Good	Best
Outputs	HART communications			✓
Outputs	Selectable error mode (3.6 mA or 22 mA)			✓
Outputs	Frequency pass through relay mode (divide by: 1)	✓	✓	
Outputs	Logarithmic scaling for 4-20mA output (conductivity only)			✓
Ordering	Base unit part numbers	Medium	Large	Small
Ordering	Field/integral mount versions available		✓	✓
Inputs	Multi-parameter inputs			✓
Inputs	Maximum number of inputs	1	1	1
Inputs	4–20mA input (via i-Go converter)		✓ –	✓
Inputs	Salinity measurements	✓		✓
Input/Output	Bi-directional flow indication (with S^3L flow sensors only)			✓
HW/SW	Batch controller	✓		
Enclosure	Field mount humidity: 0 to 100% condensing when installed			✓
Enclosure	Panel mount housing ribbed on all 4 sides			✓
Calibration	"Cal at sensor" feature (pH only)			✓
Calibration	Calibration certificates included			✓
Accessories	Angle-mount adapters (field mount units only)		✓	✓
Accessories	Back cover for panel mount units	✓	✓	
Accessories	Modular components		✓	✓
Accessories	Pluggable connectors			✓

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Applications

No matter which processes and applications—GF Piping Systems supports its customers in every phase of the project.

From start to finish, we stand beside our customers as a competent, reliable and experienced partner, actively contributing the know-how of an industrial company that has been successful in the market for over 200 years. With our application knowledge and product expertise we support our customers during the planning process, the sustainable realization of the projects and the provision of services.

Industrial & Municipal Water Treatment
Water treatment, whether it is for municipal or industrial applications, typically serves to improve the quality of the water to ensure public safety or to reduce negative impacts on process equipment and/or the environment. The 9900 Transmitter, part of the new SmartPro family, is ideal for use in measurement and control of various water treatment applications. Industrial Water Treatment applications include media filtration, deionization, desalination, cooling tower control, reverse osmosis, and fume scrubbers, while chlorine dioxide and ozone control are common in Municipal Water Treatment applications. Monitoring the quantity and quality of various parameters such as acidity/alkalinity of chemicals, salts, and chlorine concentrations are all important in delivering processed water to the quality standards demanded by each unique application.
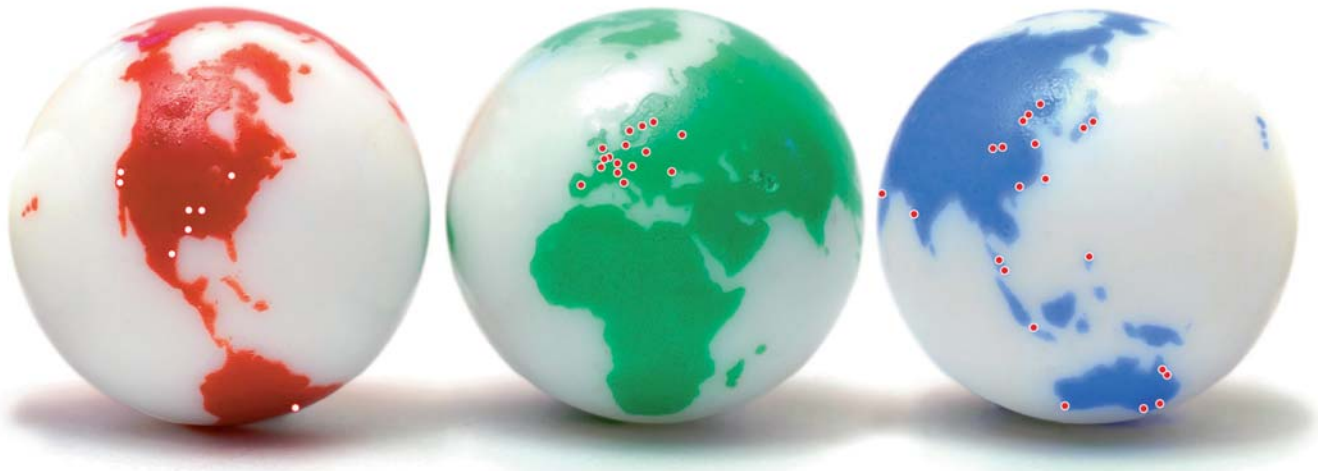
Chemical Process Industry
The 9900 and applicable sensors can be used for measurement and control in the transport and dilution of various chemicals. Managing chemical tank levels and dosing of chemicals can all be monitored and controlled using the new 9900 Transmitter.

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GF Piping Systems

2882 Dow Avenue, Tustin, CA 92780-7258
Tel. (714) 731-8800, Toll Free (800) 854-4090, Fax (714) 731-6201
e-mail: us.ps@georgfischer.com
www.gfpiping.com

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Argentina / Southern South America
Georg Fischer Central Plastics
Sudamérica S.R.L.
Buenos Aires, Argentina
Phone +5411 4512 02 90
gfcentral.ps.ar@georgfischer.com

Australia
George Fischer Pty Ltd
Riverwood NSW 2210 Australia
Phone +61(0)2 9502 8000
australia.ps@georgfischer.com
www.georgfischer.com.au

Austria
Georg Fischer
Rohrleitungssysteme GmbH
3130 Herzogenburg
Phone +43(0)2782 856 43-0
austria.ps@georgfischer.com
www.georgfischer.at

Belgium / Luxembourg
Georg Fischer NV/SA
1070 Bruxelles/Brüssel
Phone +32(0)2 556 40 20
be.ps@georgfischer.com
www.georgfischer.be

Brazil
Georg Fischer Ltda.
04795-100 São Paulo
Phone +55(0)11 5525 1311
br.ps@georgfischer.com
www.georgfischer.com.br

Canada
Georg Fischer Piping Systems Ltd
Mississauga, ON L5T 2B2
Phone +1(905)670 8005
Fax   +1(905)670 8513
ca.ps@georgfischer.com
www.georgfischer.ca

China
Georg Fischer
Piping Systems Ltd Shanghai
Pudong, Shanghai 201319
Phone +86(0)21 58 13 33 33
china.ps@georgfischer.com
www.georgfischer.cn

Denmark / Iceland
Georg Fischer A/S
2630 Taastrup
Phone +45 (0)70 22 19 75
info.dk.ps@georgfischer.com
www.georgfischer.dk

Finland
Georg Fischer AB
01510 VANTAA
Phone +358 (0)9 586 58 25
Fax   +358 (0)9 586 58 29
info.fi.ps@georgfischer.com
www.georgfischer.fi

France
Georg Fischer SAS
95932 Roissy Charles de Gaulle Cedex
Phone +33(0)1 41 84 68 84
fr.ps@georgfischer.com
www.georgfischer.fr

Germany
Georg Fischer GmbH
73095 Albershausen
Phone +49(0)7161 302-0
info.de.ps@georgfischer.com
www.georgfischer.de

India
Georg Fischer Piping Systems Ltd
400 076 Mumbai
Phone +91 224007 2001
in.ps@georgfischer.com
www.georgfischer.in

Italy
Georg Fischer S.p.A.
20063 Cernusco S/N (MI)
Phone +3902 921 861
it.ps@georgfischer.com
www.georgfischer.it

Japan
Georg Fischer Ltd
556-0011 Osaka,
Phone +81(0)6 6635 2691
jp.ps@georgfischer.com
www.georgfischer.jp

Korea
Georg Fischer Piping Systems
271-3 Seohyeon-dong Bundang-gu
Seongnam-si, Gyeonggi-do
Seoul 463-824
Phone +82 31 8017 1450
Fax   +82 31 8017 1454
kor.ps@georgfischer.com
www.georgfischer.kr

Malaysia
George Fischer (M) Sdn. Bhd.
40460 Shah Alam, Selangor Darul Ehsan
Phone +60 (0)3 5122 5585
my.ps@georgfischer.com
www.georgfischer.my

Mexico / Northern Latin America
Georg Fischer S.A. de C.V.
Apodaca, Nuevo Leon
CP66636 Mexico
Phone +52 (81)1340 8586
Fax   +52 (81)1522 8906
mx.ps@georgfischer.com
www.georgfischer.mx

Middle East
Georg Fischer
Piping Systems (Switzerland) Ltd.
Dubai, United Arab Emirates
Phone +971 4 289 49 60
gcc.ps@georgfischer.com
www.export.georgfischer.com

Netherlands
Georg Fischer N.V.
8161 PA Epe
Phone +31(0)578 678 222
nl.ps@georgfischer.com
www.georgfischer.nl

Norway
Georg Fischer AS
1351 Rud
Phone +47(0)67 18 29 00
no.ps@georgfischer.com
www.georgfischer.no

Poland
Georg Fischer Sp. z o.o.
05-090 Sekocin Nowy
Phone +48(0)22 31 31 0 50
poland.ps@georgfischer.com
www.georgfischer.pl

Romania
Georg Fischer
Piping Systems (Switzerland) Ltd.
020257 Bucharest - Sector 2
Phone +40(0)21 230 53 80
ro.ps@georgfischer.com
www.export.georgfischer.com

Russia
Georg Fischer
Piping Systems (Switzerland) Ltd.
Moscow 125047
Tel. +7 495 258 60 80
ru.ps@georgfischer.com
www.georgfischer.ru

Singapore
George Fischer Pte Ltd
528 872 Singapore
Phone +65(0)67 47 06 11
sgp.ps@georgfischer.com
www.georgfischer.sg

Spain / Portugal
Georg Fischer S.A.
28046 Madrid
Phone +34(0)91 781 98 90
es.ps@georgfischer.com
www.georgfischer.es

Sweden
Georg Fischer AB
117 43 Stockholm
Phone +46(0)8 506 775 00
info.se.ps@georgfischer.com
www.georgfischer.se

Switzerland
Georg Fischer
Rohrleitungssysteme (Schweiz) AG
8201 Schaffhausen
Phone +41(0)52 631 30 26
ch.ps@georgfischer.com
www.piping.georgfischer.ch

Taiwan
Georg Fischer Piping Systems
San Chung City, Taipei Hsien
Phone +886 2 8512 2822
Fax   +886 2 8512 2823
www.georgfischer.tw

United Kingdom / Ireland
George Fischer Sales Limited
Coventry, CV2 2ST
Phone +44(0)2476 535 535
uk.ps@georgfischer.com
www.georgfischer.co.uk

USA / Caribbean
Georg Fischer LLC
Tustin, CA 92780-7258
Phone +1(714) 731 88 00
Toll Free 800 854 40 90
us.ps@georgfischer.com
www.gfpiping.com

Vietnam
George Fischer Pte Ltd
136E Tran Vu, Ba Dinh District, Hanoi
Phone +84 4 3715 3290
Fax   +84 4 3715 3285

International
Georg Fischer
Piping Systems (Switzerland) Ltd.
8201 Schaffhausen/Switzerland
Phone +41(0)52 631 30 03
Fax   +41(0)52 631 28 93
info.export@georgfischer.com
www.export.georgfischer.com

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