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ДАТЧИКИ ДАВЛЕНИЯ

Технические характеристики на STF12F, STF13F, STF14F, STF128, STF132

ST 3000 Smart Transmitter

Series 100 Flange Mounted Liquid Level Models

STF128	0 to 400 inH_2O	0 to 1000 mbar
STF132	0 to 100 psi	0 to 7 bar
STF12F	0 to 400 inH_2O	0 to 1000 mbar
STF13F	0 to 100 psi	0 to 7 bar
STF14F	0 to 600 inH_2O	0 to 1500 mbar

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Specification and Model Selection Guide

Introduction

In 1983, Honeywell introduced the first Smart Pressure Transmitter— the ST 3000®. In 1989, Honeywell launched the first all digital, bi-directional protocol for smart field devices. Today, its ST 3000 Series 100 Flange-mount Transmitters continue to bring proven "smart" technology to a wide spectrum of measurement applications. Honeywell flange-mount transmitters may be installed directly onto a tank flange and are offered with a variety of tank connections to include ANSI flange connections. Typical applications are high accuracy level measurement in pressurized and un-pressurized vessels in the chemical and hydrocarbon industries. Honeywell flange mount transmitters demonstrate proven reliability in hundreds on installations in a wide variety of industries and applications.

All ST 3000 transmitters can provide a 4-20 mA output, Honeywell Digital Enhanced (DE) output, HART* output, or FOUNDATION™ Fieldbus output. When digitally integrated with Honeywell's Process Knowledge System™, EXPERION PKS™, ST 3000 instruments provide a more accurate process variable as well as advanced diagnostics.

Honeywell's high-performance ST 3000 S100 transmitters lead the industry in:

- Accuracy
- Stability
- Reliability
- Rangeability
- Warranty

Includes Lifetime™ Transmitters:

- Total Accuracy = ±0.0375%
- Stability = ±0.01% per year
- Reliability = 470 years MTBF
- Rangeability = 400 to 1
- Lifetime Warranty = 15 years

Figure 1—Series 100 Flange Mounted Liquid Level Pressure Transmitters feature proven piezoresistive sensor technology.

The devices provide comprehensive self-diagnostics to help users maintain high uptime, meet regulatory requirements, and attain high quality standards. S100 transmitters are ideal for critical applications, such as custody transfer of natural gas and energy and material balances, where accuracy and stability are of the utmost importance.

"Our commitment to Honeywell field instruments is based on seamless integration with our Honeywell system and the enhanced fault detection that the Honeywell DE protocol offers. Honeywell instruments also offer us a better way of ensuring database integrity over simple analog instruments. In addition, Honeywell's high-quality support has enabled us to better implement solutions to some of our more difficult problems. We have used Honeywell differential pressure smart transmitters for the past eight years. Based on their accuracy and low failure rates, we are now targeting critical flow applications that require the robustness that these transmitters bring."

DCS Systems Engineer
International Integrated Oil Company

Description

The ST 3000 transmitter can replace any 4 to 20 mA output transmitter in use today and operates over a standard two-wire system.

The measuring means is a piezoresistive sensor, which actually contains three sensors in one. It contains a differential pressure sensor, a temperature sensor, and a static pressure sensor.

Microprocessor-based electronics provide higher span-turndown ratio, improved temperature and pressure compensation, and improved accuracy.

The transmitter's meter body and electronics housing resist shock, vibration, corrosion, and moisture. The electronics housing contains a compartment for the single-board electronics, which is isolated from an integral junction box. The single-board electronics is replaceable and interchangeable with any other ST 3000 Series 100 or Series 900 model transmitter.

Like other Honeywell transmitters, the ST 3000 features two-way communication and configuration capability between the operator and the transmitter through several Honeywell field-rated portable configuration devices, including the Smart Field Communicator (SFC) and the Multiple Communication Configurator (MC ToolKit). While both are made for in-field use, the MC Toolkit also can be ordered for use in intrinsically safe environments.

The SCT 3000 Smartline® Configuration Toolkit provides an easy way to configure instruments using a personal computer. The toolkit enables configuration of devices before shipping or installation. The SCT 3000 can operate in the offline mode to configure an unlimited number of devices. The database can then be loaded down-line during commissioning.

Features

- Choice of linear or square root output conformity is a simple configuration selection.
- Direct digital integration with Experion PKS and other control systems provides local measurement accuracy to the system level without adding typical A/D and D/A converter inaccuracies.
- Unique piezoresistive sensor automatically compensates input for temperature and static pressure. Added "smart" features include configuring lower and upper range values, simulating accurate analog output, and selecting preprogrammed engineering units for display.
- Smart transmitter capabilities with local or remote interfacing means significant manpower efficiency improvements in commissioning, start-up, and ongoing maintenance functions.

Specifications

Operating Conditions – All Models

Parameter	Reference Condition		Rated Condition		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature								
All models except STF14F	25±1	77±2	-40 to 8	-40 to 18	-40 to 9	-40 to 20	-55 to 125	-67 to 257
STF14F		77±2	-40 to 8	-40 to 18	-40 to 8	-40 to 18	-55 to 125	-67 to 257
Meter Body Temperature								
All models except STF14F	25±1	77±2	-40 to 110*	-40 to 230	-40 to 12	-40 to 25	-55 to 125	-67 to 257
STF14F	25±1	77±2	-40 to 8	-40 to 18	-40 to 8	-40 to 18	-55 to 125	-67 to 257
Process Interface Temp. STF128, STF132 only	25±1	77±2	-40 to 110*	-40 to 230	-40 to 175*	-40 to 350*	-55 to 125	-67 to 257
Humidity %RH	10 to 55		0 to 100		0 to 100		0 to 100	
Minimum Pressure								
mmHg absolute	atmospheric		25		2 (short term ***)			
inH_2O absolute	atmospheric		13		1 (short term ***)			
Supply Voltage, Current, and Load Resistance	**Voltage Range:** 10.8 to 42.4 Vdc at terminals **Current Range:** 3.0 to 21.8 mA **Load Resistance:** 0 to 1440 ohms (as shown in Figure 2)							

* For CTFE fill fluid, the rating is –15 to 110 °C (5 to 230°F

** For CTFE fill fluid, the maximum temperature rating is 150°C (300°F)

*** Short term equals 2 hours at 70°C (158 °F)

Maximum Allowable Working Pressure (MAWP)

STF 128, STF 132	Flange Material	Ambient Temperature -29 to 38 [-20 to 100 F]	Maximum Meterbody Temperature 125 C [257 F]	Process Interface Temperature 175 C [350 F]
ANSI Class 150	Carbon Steel	285 [19.6]	245 [16.9]	215 [14.8]
psi [bar]	304 S.S.	275 [19.0]	218 [15.0]	198 [13.7]
	316 S.S.	275 [19.0]	225 [15.5]	205 [14.1]
ANSI Class 300	Carbon Steel	740 [51.0]	668 [46.0]	645 [44.5]
psi [bar]	304 S.S.	720 [49.6]	570 [39.3]	518 [35.7]
	316 S.S.	720 [49.6]	590 [40.7]	538 [37.1]
DN PN40	Carbon Steel	580 [40.0] **(1)**	574 [39.6]	559 [38.5]
psi [bar]	304 S.S.	534 [36.8] **(1)**	419 [28.9]	385 [26.5]
	316 S.S.	534 [36.8] **(1)**	434 [29.9]	399 [27.5]
STF12F, STF13F, STF14F ANSI Class 150 **psi [bar]**	316L Stainless Steel	230 [15.9]	185 [12.8]	No rating at this temp

(1) Ambient Temperature for DN PN40 is –10 to 50 C [14 to 122

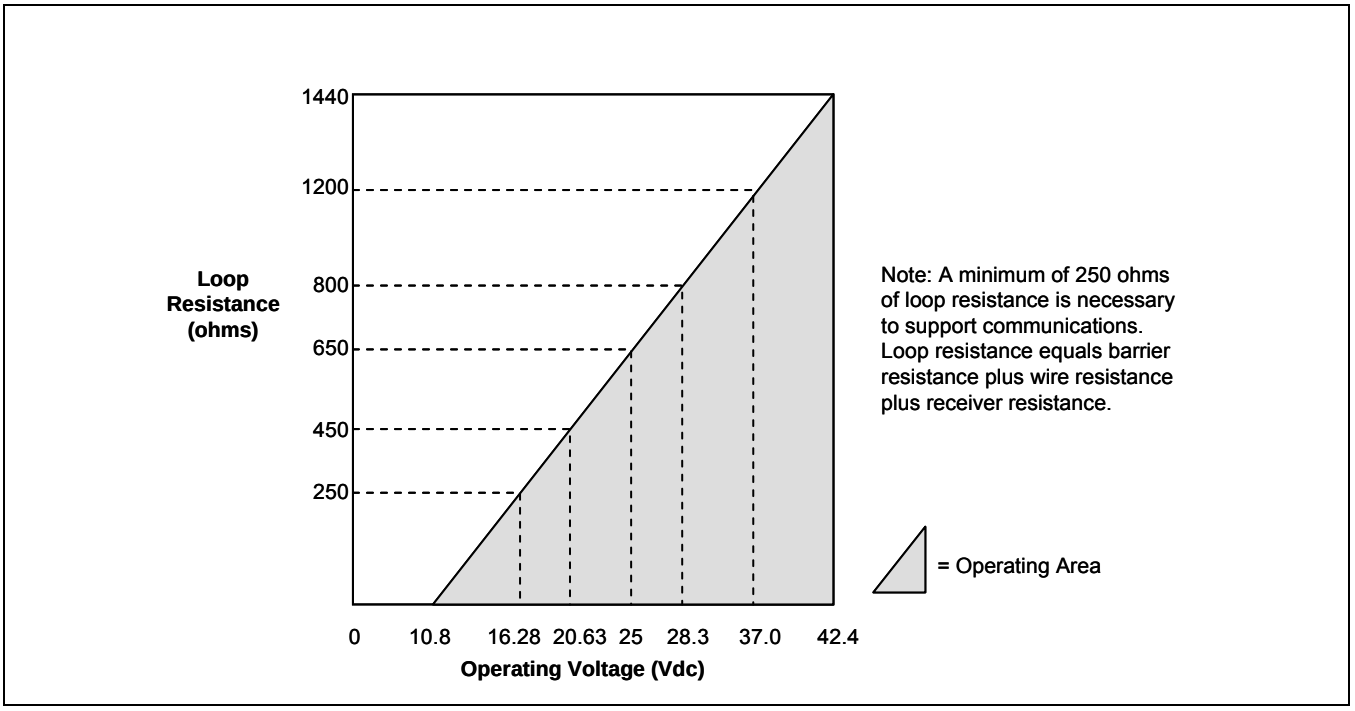

Figure 2 – Supply voltage and loop resistance chart.

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