# Honeywell

# SFC Smart Field Communicator Model STS103

34-ST-03-55 12/95

Page 1 of 4

# **Specification**

### **Description**

The hand-held SFC Smart Field Communicator is a battery-powered device which establishes secure two-way communications between Honeywell Smart Transmitters and the user over the existing signal lines.

The SFC is extremely useful for simplifying maintenance by providing access to the field devices without a trip to the field.

When the SFC is connected to the transmitter signal lines at an accessible location anywhere from the control room to the transmitter, the operator can send data to and receive data from the transmitter's microprocessor.

The SFC is in an impact resistant housing and comes with test leads, a weather-proof carrying case, a Ni-Cd rechargeable battery pack, and a battery charger.

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Figure 1—Model STS103 Smart Field Communicator

### **Function**

Model STS103 communicates with the Honeywell Smartline products including:

- ST 3000 Pressure and Differential Pressure Transmitters
- STT 3000 Temperature Transmitters
- MagneW 3000 Magnetic Flowmeters
- SCM 3000 Smart Coriolis Mass Flowmeters
- SGC 3000 Gas Chromatograph
- SMV 3000 Smart Multivariable Transmitters
- SLT—Drexelbrook Level Transmitter

The SFC has many functions. It can:

### Select the Communications Mode

- The transmitter can be

configured to transmit its output in either an Analog (4 to 20 mA) mode or in the Digital Communications (DE) mode.

**Configure** - operating parameters such as LRV, URV, Damping, Failsafe mode, and Input actuation type for the STT may be programmed into the transmitter using the SFC.

**Diagnose** - access the Smart Transmitter's self-diagnostic capabilities to troubleshoot suspected operation or communication problems.

Check Calibration - The SFC provides a simplified procedure for checking calibration of Smart Transmitters, thus maintaining excellent transmitter accuracy and significantly reduced maintenance requirements. The accuracy of the SFC's digital readout of the transmitter's output may be certified allowing the STS103 to be used

as part of calibration schemes following ISO 9000 procedures. Re-ranging of the transmitter is also possible using the STS103.

Display - All configuration parameters as well as other data such as PROM/serial number, tag name, sensor temperature (ST), hi/lo PV (STT), and scratch pad memory can be readout on the two line LCD display. The STS103 also displays measured process variables (pressure, differential pressure, flow rate) in selectable engineering units.

Checkout - By configuring the transmitter for the output mode you can command the smart transmitter to transmit a precise signal, selectable from 0% to 100% full scale, to assist in verifying loop operation, loop calibration, or troubleshooting.

# **Specifications:**

<b>Operating Conditions</b>					
		Operating Conditions	Transportation and Storage		
Ambient Temperature	°C °F	-10° to 50° 14° to 122°	-20° to 60° -4° to 140°		
Humidity	%	10% to 90% RH	5% to 95% RH		
Vibration Maximum Acceleration (G) Frequency (Hz) Amplitude (mm peak to peak)		0.2 0 to 100 0.75	0.5 0 to 100		
Shock Maximum Acceleratio Duration (ms)	n (G)	5 50	15 11		
Minimum Load Resistance @ 24Vdc Supply Voltage		250 Ohms			
Performance					
Safety Approvals		FM Intrinsically Safe, Class I, II, III, Div 1, Groups A-G Outdoor			
		Nonincendive, Class I, Div 2, Groups A-G Outdoor			
CE Conformity, Europe		89/336/EEC, the EMC Directive			
Physical					
Dimensions Overall Keypad		102 mm x 42 mm x 206 mm (4 ln. x 1.7 in. x 8 in.) 86 mm x 136 mm (3.4 x 5.4 in.)			
Weight		470 g (1 lb.)			
LCD Display Display Character		2 lines x 16 characters 5 x 7 dots with line for cursor			
Keyboard Type		Tactile feedback embossed membrane, 4 by 8 matrix, 32 keys			
Lead Connectors		Easy hook and alligator clips			
Battery Charger Input Power Output Power Time to charge Time between charges	s	108 – 120 Vac, 200 – 240 Vac, 50/60 Hz 7 Vdc, 180 mA 16 hours minimum 24 hours minimum, a colon":" in the eighth character position indicates low battery power.			

# **Ordering Information**

Contact your nearest Honeywell sales office, or

Honeywell Industrial Automation and Control 16404 N. Black Canyon Highway Phoenix, AZ 85023

In Canada — Honeywell Limited 155 Gordon Baker Rd. Willowdale, Ontario M2H 3N7

Specifications are subject to change without notice.

# **Connections:**

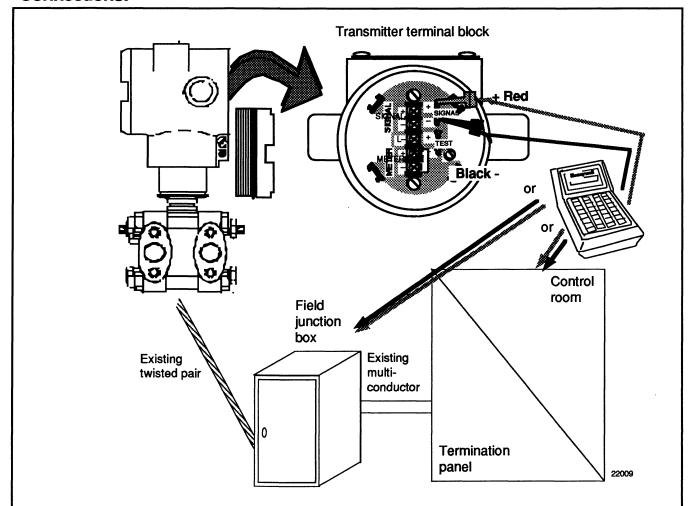
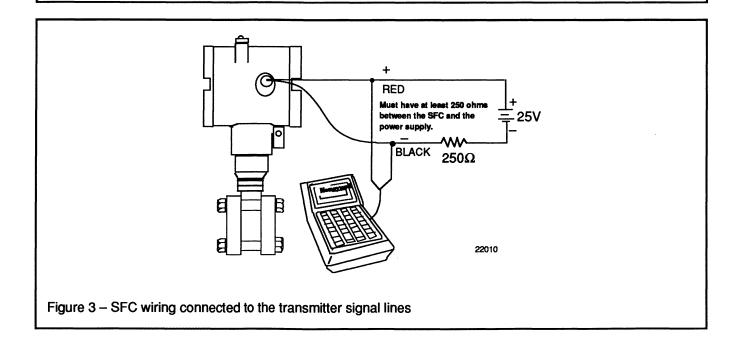


Figure 2-SFC connects to a Smart Transmitter at the transmitter's terminal block, the Field Junction Box, or the Control Room Termination Panel



## **Model Selection Guide**

### **INSTRUCTIONS**

- · Select the desired key number. The arrow to the right marks the selection available.
- Make one selection from each table, I and II, using the column below the proper arrow.
   Select as many Table III options as desired (If no options are desired, specify 00). A dot
   (•) denotes unrestricted availability. A letter denotes restricted availability. Restrictions follow Table IV.

KEY NUMBER	Selection	Ava abil	•••					
Smart Field C	STS103	↓						
TABLEI	TABLEI							
Display Language	Ger Spa	glish man anish nch	001 002 003 005					
TABLE II								
Cable Length	6 F	eet		00006				
TABLE III OP	TIONS							
Digital Mode	None Battery Charger — 120 Vac 50/60 Hz Battery Charger — 240 Vac 50/60 Hz Digital Mode Certification CE Conformity Europe					L <sub>6</sub> J		
Approval Body		val Type	Location or Classification					
Factory Mutual	Intrinsica	ally Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G	F1D2	.			
CSA	CSA Intrinsically Saf		Class I, II, III, Div. 1, Groups A,B,C,D,F,G	C1D2		b		
SAA	Intrinsic	ally Safe	EEx ia IIC T6	AOCA				
JOAM	Non Inc	on Incendive Ex n IIC T6						
LCIE	CIE Intrinsically Safe EEx ia IIC T5		EOD2	•				

I	1	٩	В	L	E	ı	٧	

Factory Identification	XXXX	•
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RESTRICTION

Restriction Letter	Available Only With		Not Available With		
bс	Table	Selection	Table	Selection	
4	Select	Select only one option from this group			
	Not available with Table III Options 00 and 12				