

SFC Smart Field Communicator Model STS103

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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.

Function

Model STS103 communicates with the Honeywell Smartline products including:

- ST 3000 Pressure and Differential Pressure Transmitters
- STT 3000 Temperature Transmitters
- Magne/W 3000 Magnetic Flowmeters
- SCM 3000 Smart Coriolis Mass Flowmeters
- SGC 3000 Gas Chromatograph Transmitters
- 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



Figure 1—Model STS103 Smart Field Communicator

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

Configure - operating parameters such as LRV, URV, Damping, Fail-safe 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.

Honeywell Sfc Manual

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Honeywell Sfc Manual:

Programmable Logic Controllers John W. Webb, Ronald A. Reis, 1999 Useful for an undergraduate level course on PLCs or Electronic Controls this book provides coverage on programmable logic controllers It discusses applications for each PLC function and includes an array of examples and problems that help students achieve an understanding of PLCs **Chilton's I & C S** ,1992 *Instrumentation & Control Systems* ,1994 **Regional Industrial Buying Guide** ,2000 **Approval Guide** ,1995 Control Engineering ,1990 Instrumentation and automatic control systems The Refrigerating Data Book ,1953 *NASA Reference Publication* ,1977 **Space transportation system and associated payloads** ,1981 *OE Communique* ,1981 *Army Logistician* ,1982 The official magazine of United States Army logistics Proceedings American Society for Engineering Education. Conference,1994 **Energy** ,1980 *Army Organizational Effectiveness Journal* ,1981 **Measurement & Control Products** ,1989 **Factory Management and Maintenance** ,1940
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