

STF

Service Test Fixture for SUPERtrol II Flow Computers

Features

- Service aid for rapid, automatic Field Diagnostics
- Test Aid for rapid Incoming Inspection
- Test jacks provided for measuring and injecting signals to ST2
- Precision 20 mA test signal may be jumpered to various inputs

DESCRIPTION:

The STF is an accessory for the SUPERtrol II (ST2) intended to assist a field or incoming inspector with the means to rapidly verify the proper operation of the SUPERtrol II. It is used in conjunction with a special service test mode built into the SUPERtrol II.

In the automatic mode it provides a PASS/FAIL result of a test. In the event of a FAIL test, a record is kept of the malfunctioning circuitry which may be viewed on the face of the SUPERtrol II and/or printed over the RS-232 port.

In the manual mode, test jacks are provided as a user convenience for connections to multimeters and signal simulators. A precision 20mA signal may be jumpered to the current inputs.

AUTOMATIC MODE

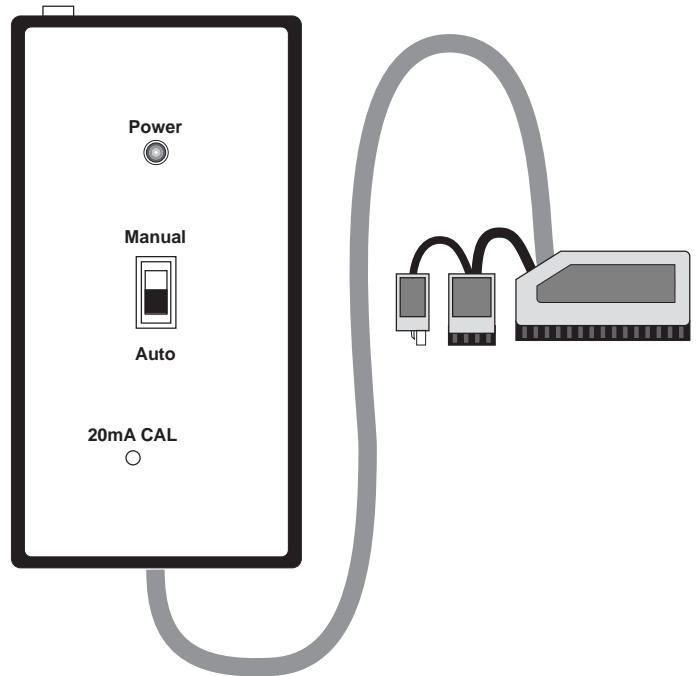
The STF is used in conjunction with the SUPERtrol II to rapidly isolate problems to either the Field devices or the SUPERtrol II to speed trouble shooting. Service sequence as follows:

- Disconnect the field wiring using the two piece connector
- Plug in the service test fixture
- Place the Service and Analysis tool to the "Automatic Setting"
- Run the automated "Service Test" from the "Service and Analysis" menu of the SUPERtrol II
- Test will advise "Test Passed" or "Test Failed".
- If test fails, use the "Error Report" to isolate faulty circuitry

MANUAL SERVICE MODE

As a service aid the STF provides a number of test jacks which may be used to inject or measure input/output signals during calibration and trouble shooting. To use this mode:

- Disconnect the field wiring using the two piece connector
- Plug in the service test fixture
- Place the Service and Analysis tool to the "Manual Setting"
- Plug in the test leads from your multimeter or simulator into the service jacks provided while performing routine tasks.
- Jumper precision 20 mA test signal provided to any current input to verify operation



SPECIFICATIONS

Controls and Adjustments

Power Indicator	Illuminates when power is applied
Fuse	Over current Protection
Auto/Manual Mode	Permits user to select desired mode of operation for STF operation
20 mA Cal	Multi-turn STF calibration adjustment for built in 20 mA output test signal

Service Jack Connections

20mA Output (+)	Provides precision 20 mA test signal which may be jumpered to other test inputs
I Input (+) Flow	Connected to ST2 Pin 3 flow input
Pulse Input (+)	Connected to ST2 Pin 2 flow input
I Input (+) Temp.	Connected to ST2 pin 7 temperature input
I Input (+) Press.	Connected to ST2 pin 11 pressure input
Analog Out 1 (+)	Output signal from ST2 pin 14
Analog Out 2 (+)	Output signal from ST2 pin 15
Common	Signal common from 16 also connected to pin 4

Dimensions

Test Fixture	3.25" W x 6"H x 2"D
Cable Length	22"

Ordering Information

EXAMPLE STF
Series _____

STF = Service Test Fixture for SUPERtrol II



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