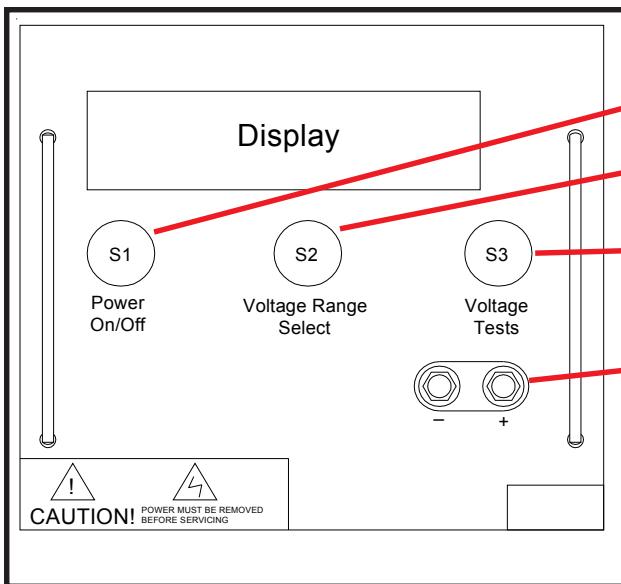
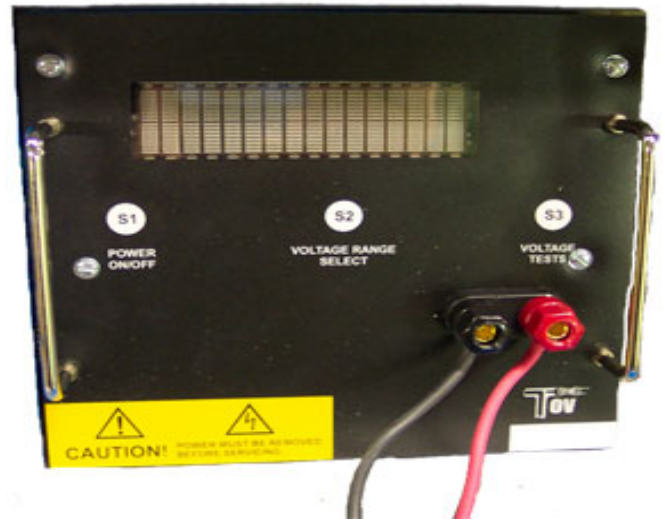


TOV Transducer: Slide Chassis Model SC-03

The latest model Slide Chassis (SC-03) has been released in June 2004. It provides new features and updated performance compared to its predecessors Model SC-01 and Model SC-02. The SC-03 is standard in all Model TOVM 1.4 and is retro-fittable into TOVE and earlier model TOVM Transducers.



- **S1:** Power on/off
- **S2:** Voltage Range Select: Press to toggle between 50.00 and 10.000 volt ranges
- **S3:** Voltage Tests: Press to Toggle through the Voltage Test results or to Voltmeter
- **Test lead jacks:** Red = plus, Black = minus, measure Transducer board test point a (except VI Board) by inserting the + into the test point to be measured and the - into the J11M, J13M, J15P or J17 board test point 12 (Common).

The model SC-03 Slide Chassis includes a new “true” differential VOM with an LCD display of all voltage measurements.

The meter has two ranges, 0.00 to 50.00VDC and 0.000 to 10.000VDC. The table to the right shows the specifications for the voltage measurements and display.

Description	Performance Characteristic
Differential analog inputs	8
Input Impedance: 50.00V range 10.000V range	10 Meg 2 Meg
Common Mode Analog Inputs	16
Measuring Resolution	12bit (Min)
Analog Measurement Resolution 50.00V range 10.0000V range	10mV 1mV
Accuracy	+/- .2%
Power Supply	Insulated 110VAC/220VAC
Display resolution	4 Decimal digit

Model SC-03 Slide Chassis includes new on-line voltage checks of all Transducer power supply voltages. The Power Checks are performed automatically upon start-up and may be manually checked at any time during TOV System operation with no affect on the operation display.

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Test #	Voltage	Evaluates	Acceptance Level
1	+5VDC	+5 voltage from 15/5V P.S. in SC-03	+/-10%
2	+15VDC	+15 volts from 15/5V P.S. in SC-03	+/-10%
3	-15VDC	-15 volts from 15/5V P.S. in SC-03	+/-10%
4	+24VDC	+24V P.S. #1 from D 24V P.S. Board in SC-03	+50%, -20%
5	+24VDC	+24V P.S. #2 from D 24V P.S. Board in SC-03	+50%, -20%
6	+15VDC	+15 volts from J14 DC-DC Converter board	+/-10%
7	-15VDC	-15 volts from J14 DC-DC Converter board	+/-10%

The table to the right indicates the differences between the 3 model Slide Chassis that may be found in the field. Model SC-03 supercedes all previous models and is interchangeable into model TOVE and TOVM Transducers with no changes to the Transducer wiring.

Please note, for certain TOVE and TOVM models, not all Power Checks are used and may return failed results if the Power Supply is not present.

Features	SC-01	SC-02	SC-03
Field Service requirements	110VAC, 50/60 HZ	110VAC, 50/60 HZ	110VAC, 50/60 HZ
+/-15 and 5 Volt P.S.	15V ONLY	15/5V	15/5V
24 Volt Power Supplies	Two Individual 24V PS	Dual 24V PS Board	Dual 24V PS Board
Meter Board SC-MB-1,-2	Standard	Standard	N/A
Digital Voltmeter SC-M-1,2	Standard	Standard	N/A
Power Monitor Board	N/A	N/A	Standard
Power Checks	+/-15V ONLY	+/-15V ONLY	ALL Power Supplies
Startup-Power Tests	N/A	N/A	Standard
Voltage Ranges:	0.00 +/- 20.00 0.000 +/- 2.000	0.00 +/- 20.00 0.000 +/- 2.000	0.00 +/- 50.00 0.000 +/- 10.000
Fuse Protection	Standard	Standard	Standard
Voltage measurement method	One sided from analog common	One sided from analog common	True Differential
Use in Transducer Models	TOVE	TOVE TOVM 1.2 (Std) TOVM1.3 (Std) TOVL 1.0 (Std)	TOVM 1.4 (Std) TOVL 1.1 (Std) Earlier Models: Retrofit

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