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SEFRAM 7357

Process Multimeter 50.000 counts TRMS AC+DC, high accuracy

Capabilities

Multimeter

- Measure voltages up to 1000V TRMS AC+DC and 1000V DC
- Basic accuracy: 0,05%
- Measure curents up to 1A
- Frequency counter
- Measure resistance up to 50 Mohms
- Continuity test with buzzer
- Diode test
- Digital filter for high accuracy and stability

Process calibrator

- Current source 4-20mA or 0-20mA
- Step mode with pre-defined values or user defined
- Automatic or manual ranges
- Simulator mode with % and Delta %
- Loop power mode (24V/24mA) and HART mode

General capabilities

- Memory : 1000 measures
- Functions: MIN/MAX/AVG, REL, HOLD, Auto HOLD
- Opto isolated USB interface
- PC software WINDMM507 (supplied)
- Safety: 600V CAT IV and 1000V CAT III

Unique ergonomy with navigator

The SEFRAM 7357 process multimeter uses a unique navigator to access and navigate in the menus and functions provided. All basic functions (V, A Ω, ...) are kept with direct access for time saving.

Process functions

The SEFRAM 7357 offers not only a current source (4-20mA or 0-20mA), but can work in simulate mode in your process loop. Current ramps can be generated automaticaly with standard parameters or user defined parameters. The SEFRAM 7357 can be used as a loop power and can supply sensors, measuring the sourced current. In HARTmode, a 250 ohms resistor is inserted in the loop in oder to communicate with HART sensors or intelligent instruments.

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Hi-accuracy and TRMS AC+DC measurements

The Process DMM SEFRAM 7357 provides a basic accuracy of 0,05% in V DC. In AC mode, TRMS AC and TRMS AC+DC mode permit measurements on complex signals with large bandwidth (10kHz).

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Process Multimeter 50.000 counts

Specifications	Sefram 7357
DC voltages	
Ranges	50mV to 1000V in 6 ranges
Basic accuracy	±(0,05% + 5dgt)
Resolution	1µV to 0,1V
AC voltages (TRMS AC et TRMS AC+DC)	
Ranges	50mV to 1000V in 6 ranges
Resolution	1µV to 0,01V
Basic accuracy (AC)	±(0,5% + 20dgt) from 5% to 100% of the range
Basic accuracy in AC, AC+DC	±(1,55% + 25dgt) from 5% to 100% of teh range
Bandwidth	40Hz to 10kHz (according to range)
DC currents	
Ranges	50mA and 1A
Basic accuracy	±(0,05% + 5dgt)
Resolution	from 1µA to 50mA
Protection	with HBC fuse 0.44A / 1000V
AC current (TRMS AC et TRMS AC+DC)	
Ranges	50mA and 1A
Resolution	from 1µA to 50mA
Basic accuracy	±(1,0% + 20dgt) from 5% to 100% of the range
Bandwidth	40Hz to 10kHz
Protection	with HBC fuse 0.44A / 1000V
Frequency (AC currents and voltages)	
Ranges	500Hz to 100kHz (10kHz for AC currents)
Basic accuracy	±(3dgt)
Sensitivity	1V p-p from 5Hz to 100kHz and 10mA/300mA in current from 5Hz to 10kHz
Protection	same as current or voltage ranges
Resistance	
Ranges	500ohms to 50Mohms in 6 ranges
Basic accuracy	±(0,2% + 10dgt)
Protection	1000Vrms or DC
Continuity test	yes, with buzzer (threshold 30 ohms), ±(0,1% + 30dgt)
Diode test	yes, with 1mA test current
Accuracy	±(1% + 20dgt)
Functions	MIN, MAX, AVG (average), REL, HOLD, Auto Hold
Process calibrator	
Current source mode	
Ranges	0 to 20mA or 4mA to 20mA (overrange possible up to 24mA)
Basic accuracy	±(0,05% + 5dgt)
Resolution	1µA
Protection	with HBC fuse 0.44A / 1000V
Current ramp (source mode)	
Ramps	linear, 0% to 100% and back to 0% in 40s linear, 0% to 100% and back to 0% in 20s 25% steps, 0 to 100%, 15s for each step 25% steps, 0 to 100%, 5s for each step
Basic accuracy, protection	same as current accuracy and protection
Current ramp (simulator mode)	same as source mode, but DMM uses external power supply (6 to 48V)
Loop supply	
Ranges	current: 50mA / voltage: 30V / Impedance: 1,25kΩ
Accuracy	±(0,05% + 5dgt)
Protection	with HBC fuse 0.44A / 1000V
Loop supply - 250 HART mode	
Ranges	current: 50mA / voltage: 24V / Impedance: 1kΩ
Accuracy	±(0,05% + 5dgt)
Protection	with HBC fuse 0.44A / 1000V

General specifications

Display type	LCD, with automatic backlight
Display counts	5 digits, 50.000 counts
Measurement rate	10 measures/s
Memory	100 measures
Operating temperature	-10°C to 50°C
Storage temperature	-20°C to 60°C (without batteries), RH < 80%
Protection	electronic, except current ranges protected with HBC fuse
Power supply	4 x 1.5V - LR6 AA batteries / Autonomy: 120h typical with alkaline batteries / 10h typical in current source mode
Auto Power-off	after 20mn approx. Or disabled
Dimensions	95 x 52 x 207mm
Weight	630g, with holster
Safety	600V CAT IV and 1000V CAT III
Warranty	1 year

Supplied with: a set of safety test leads, user manual , opto-isolated USB cable, WINDMM507 software for PC, batteries (installed).

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SFT7357 A 00- Specifications can be updated without notice

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afaq ISO 9001 Qualité AFNOR CERTIFICATION 1997/7001

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