

HART MULTIFUNCTION PROCESS CALIBRATOR

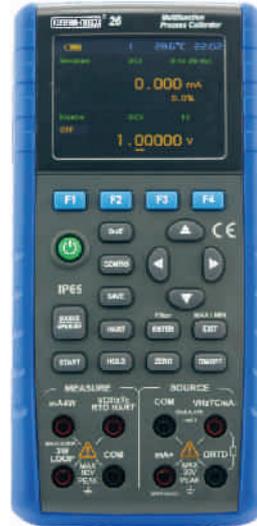
BASIC FEATURE

- The multi-functional field process calibrator with high accuracy and stability, which can provide powerful measurement or output functions & other special functions to meet all the calibration work for field process control.

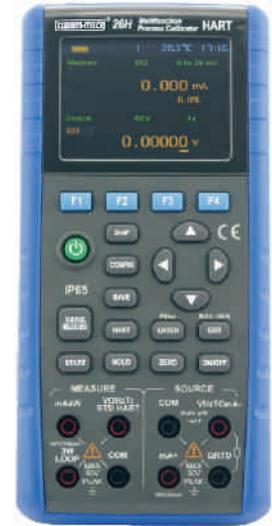
• Basic Feature For Input Measurement

The maximum accuracy can reach 0.01%, and the measurement result is displayed in 5 digits. Measurement functions include: DC voltage measurement, AC current measurement, Resistance measurement, RTD resistance measurement, Frequency, pulse counting, switching value measurement, pressure measurement, and pressure leakage etc.

2-wired, 3-wired and 4-wired resistance and RTD measurement Quick response switch measurement allows capturing the process parameters in switch actions. Data processing function: data-hold, zero, ratio, average, max/min etc. Internal 24V loop power and measure loop current, internal optional 250 Ω HART loop resistance and loop power, easy to use HART communication device without carrying load resistance and power.



Model 26



Model 26H

• Basic Feature For Simulate Output

The maximum accuracy can reach 0.01%, and the measurement result is displayed in 6 digits. Output functions include: DC voltage, AC current, simulate Resistance, TC, RTD, simulate transmitter output, Frequency, pulse counting, switching value, pressure output etc. Increment or decrement in output setting and connection or disconnection of the output are both available, which are easily operated. DCI output can provide manual- step, auto-step and auto-ramping output. Internal 24V loop power is available.

- Measurement and output functions are designed as two separately isolated channels, and both the measurement function and the output function can be realized and display input measurement value and output setting value simultaneously.
- The meter can fulfill pressure calibration through serial RS-232 interface(LEMO plug) with the external VPM-S Series digital pressure module of our company. The basic accuracy for pressure module can reach 0.05%, and many different pressure unit are available in pressure calibration.
- The meter possesses HART communication function, supporting common HART commands and general application commands. Besides, the meter can read basic information of the calibrated instrument, facilitate diagnose test and undertake micro-adjustment of many calibrations of HART transmitter, and can store as many as twenty configuration files of HART device to make analysis by upper PC through utility software.
- The meter provides rich optional temperature graduation by internal temperature transmitter with high accuracy, and possesses TC cold-compensation function with high accuracy, which can be set in connection state or disconnection state.
- **PC communication function**
 - The meter provides two ways to communicate with the user's upper PC and can communicate by the infrared isolated serial commutation module of the compatible USB interface.
 - Supports SCPI commands of industrial standard, and can realize remote control of the meter by equipment driving software.

Note: The PC communication function is not available when the meter is communicating with the pressure module in HART communication function.

- The meter is equipped with data storage with large capacity, to store as many as 1200(groups) data of field calibration. The data can be read from the meter or uploaded to the user's PC.
- The meter employs panel calibration technique, connects to standard device, undertakes panel calibration operation according to set range, & saves relevant calibrated data, fulfills the periodic calibration work stipulated by the meter to ensure the accuracy and performance.
- The meter employs the navigation key to make increment or decrement of the setting value, which makes operation convenient and easy.
- 3.2 inches TFT display screen, supporting multiple data display interface.
- Other functions: auto power-off, VF, auto turn- off for backlight, setting of backlight, data and time display and setting, ambient temperature detection, power frequency setting ect. .

• Two power supply modes

The meter is powered by the size "AA"×4 Alkaline batteries in the compartment or the power adapter.

Project		Model	26	26H
		Performance parameters		
Source	DC millivolt	Range	-5 ~ 110mV	-5 ~ 110mV
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uV	1uV
	DC voltage	Range	-1 ~ 11V	-1 ~ 11V
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	10uV/0.1mV	10uV/0.1mV
	DC current	Range	0 ~ 33mA	0 ~ 33mA
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
	Sink current	Range	0 ~ 33mA	0 ~ 33mA
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
		External power supply	5 ~ 28V	5 ~ 28V
	Resistance	Range	0 ~ 4KΩ	0 ~ 4KΩ
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	0.01Ω/0.1Ω	0.01Ω/0.1Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N/L/U	R/S/K/E/J/T/B/N/L/U
		Accuracy	0.4℃	0.4℃
		Resolution	0.1℃/1℃	0.1℃/1℃
	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.2℃	0.2℃
		Resolution	0.1℃	0.1℃
	Frequency (Hz)	Range	1Hz ~ 110KHz	1Hz ~ 110KHz
		Accuracy	±2words	±2words
		Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
	Frequency (CMP)	Range	60~1200 CPM	60~1200 CPM
		Accuracy	±2words	±2words
		Resolution	1CPM	1CPM
	Pulse	Frequency	1Hz ~ 10KHz	1Hz ~ 10KHz
		Range	1 ~ 100000cyc	1 ~ 100000cyc
		Accuracy	±2words	±2words
	Switch	Resolution	1cyc	1cyc
		Range	1Hz ~ 110KHz	1Hz ~ 110KHz
Accuracy		±2words	±2words	
Pressure	Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz	
	Range	Depends on the pressure module	Depends on the pressure module	
	Accuracy= ±(% of the set value+% of range)	Depends on the pressure module	Depends on the pressure module	
Measurement	DC millivolt	Resolution	5 digit display	5 digit display
		Range	-5 ~ 550mV	-5 ~ 550mV
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
	DC voltage	Resolution	1uV/10uV	1uV/10uV
		Range	-0.5 ~ 35V	-0.5 ~ 35V
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
	DC current	Resolution	0.1mV/1mV	0.1mV/1mV
		Range	-5 ~ 55mA	-5 ~ 55mA
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
	Resistance	Resolution	1uA	1uA
		Range	0 ~ 5.5KΩ	0 ~ 5.5KΩ
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
	Thermocouple	Resolution	0.01Ω/0.1Ω	0.01Ω/0.1Ω
		Range	R/S/K/E/J/T/B/N/L/U	R/S/K/E/J/T/B/N/L/U
		Accuracy	0.7℃	0.7℃
	RTD	Resolution	0.1℃/1℃	0.1℃/1℃
		Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.4℃	0.4℃
	Frequency (Hz)	Resolution	0.1℃	0.1℃
		Range	3Hz ~ 50KHz	3Hz ~ 50KHz
		Accuracy	±2words	±2words
	Frequency (CMP)	Resolution	0.01Hz	0.01Hz
		Range	180~3000000 CPM	180~3000000 CPM
		Accuracy	±2words	±2words
		Resolution	1CPM	1CPM

	Switch	Range	CLOSE/OPEN	CLOSE/OPEN
		Threshold	200 ~ 300Ω	200 ~ 300Ω
	Pressure	Range	Depends on the pressure module	Depends on the pressure module
		Accuracy= ±(% of Reading+ % of Range)	Depends on the pressure module	Depends on the pressure module
		Resolution	5 digit display	5 digit display
	Continuity beeper	Range	0 ~ 500Ω	0 ~ 500Ω
		Accuracy	≤50Ωsound	≤50Ωsound
		Resolution	0.01Ω	0.01Ω
	Loop power supply	Range	24V	24V
		Accuracy	±10%	±10%
		The maximum current	22mA	22mA
	HART		N/A	✓
Other functions	Backlight	✓	✓	
	Auto Power-off	✓	✓	
	Charging function	✓	✓	
	Room temperature display	✓	✓	
	Battery detection	✓	✓	
	The ramp signal	✓	✓	
	Communication function	RS232 serial communication, can realize remote control instrument by the device driver software.	RS232 serial communication, can realize remote control instrument by the device driver software.	
	Characteristic			
Safety	EN61010-1 : 2001	EN61010-1 : 2001		
Withstand voltage	The input and output AC350V/1 minutes	The input and output AC350V/1 minutes		
Insulation	The input and output DC500V /50MΩ.	The input and output DC500V /50MΩ.		
EMC	EN61326-1: 2006	EN61326-1: 2006		
Authentication	CE	CE		
Display	3.2" TFT screen	3.2" TFT screen		
Power supply	4×1.5V AA Alkaline battery	4×1.5V AA Alkaline battery		
Size	206 × 97 × 60 mm	206 × 97 × 60 mm		
Weight	about 633g	about 633g		
Standard Quantity Per Carton	6pcs	6pcs		
Standard Carton Measurement	530mm*405mm*310mm	530mm*405mm*310mm		
Standard Carton Cross Weight	12.6kg	12.6kg		

All Specifications are subject to change without prior notice.

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G-17, Bharat Industrial Estate, T. J. Road, Sewree (W), Mumbai - 400 015. INDIA.
Sales Direct.: 022-24156638, **Tel. :** 022-24124540, 24181649, **Fax :** 022-24149659
Email : kusam_meco@vsnl.net, **Website :** www.kusamelectrical.com