



New Sentinel I28 Replaces Sentinel I24

As CTS continues to keep up with latest technology, we owe it to our customers to stay innovative. In doing this we came up the Sentinel I28, the world's most advanced multi-functional test instrument on the market. The I28 features a standard manifold design tested with over 40,000,000 cycles. CTS pairs this manifold with a new high performance transducer that reduces test cycle and improves accuracy and repeatability. Also, with the I28 you get consistency, CTS has leveraged the user friendly interface that you see among all of our instrumentation. The matrix below will highlight current features, functionality, and design to ensure that you are aware of the differences.



Illuminated Status Bars **Eliminates** Stack Lighting

	Sentinel I-28	Sentinel I-24
Hardware Information		
<i>Enclosure Options</i>	Wall mount only	Wall mount or Benchtop
<i>Size (inches)</i>	12 W x 9.25 H x 8.75 D	11 W x 13.5 H x 9 D
<i>Display</i>	Color LCD 12 line 480 x 272	VFD, 8 line display
<i>Pass/Fail/In-Test Indicators</i>	Light bar indicators	Individual LED's
<i>Keypad Interface</i>	Language Neutral	Defined Shortcut Keys
<i>Test Port</i>	1/4" Colder fitting	1/4" Colder fitting
<i>Concurrent Channels</i>	1	1
<i>Multiple Test Port Option</i>	Custom available	None
<i>Internal Vacuum Generator Option</i>	Custom available	Yes
<i>External Leak Standard Port Option</i>	Custom available	No
<i>Restricted Fill (Ramping) Option</i>	Yes	No
<i>Auto Supply Shutoff Option</i>	Custom available	No
<i>CTS Connect Actuator Option</i>	Custom available	1 pneumatic output, 1/8" push lock



New Modular Control Unit (image)

New Pneumatic Circuitry enhances our Mass flow capabilities – better flow meter response and stable repeatability. (Ramp to event, ramp to proof, and over fill capability are options now available.)

	Sentinel I-28	Sentinel I-24
Test Types		
<i>Pressure Decay - ΔP (vac or press)</i>	X	X
<i>Pressure Decay - Leak Std (vac or press)</i>	X	X
<i>Pressure Decay - ΔP/ΔT (vac or press)</i>	X	X
<i>Pressure Decay - DP (press only)</i>		X
<i>Occlusion (vac or press)</i>	X	X
<i>Mass Flow (press only)</i>	X	X
<i>Mass Flow - Continuous (press only)</i>	X	
<i>Mass Flow - Leak Std (press only)</i>	X	X
<i>Mass Flow - Differential (press only)</i>		X
<i>Ramp to ΔP Event (press only)</i>	X	
<i>Ramp to Flow Event (press only)</i>	X	
<i>Ramp to Proof (press only)</i>	X	
<i>Volumetric Test (press only)</i>		X



Language Neutral Option (Chinese Shown)

	Sentinel I-28	Sentinel I-24
Software Capability		
<i>Graphing Capability</i>	Bar graph, Customizable XY graph	Bar graph
<i>Languages</i>	English, Chinese, Korean, Spanish	English
<i>Security</i>	Password	Password
<i>Program Auto Setup</i>	Yes	Yes
<i>Program Storage</i>	99	99
<i>Program Selection Methods</i>	Keypad, RS232, Binary, Ethernet	Keypad, RS232, Binary, Ethernet
<i>Program Calibration</i>	Performance Factor Feedback	Performance Factor Feedback
<i>Manual Edit of Program Calibration</i>	Yes	No



New External Connectivity 12 inputs/ 12 outputs I/O Options

*Cables are now provided with all I-28 instruments. Please note that new cables are not universal (Contact CTS for replacement)

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Pneumatic Capability		
<i>Pressure Ranges (PSIG)</i>	-14.5, -2, 0.5, 2, 30, 100, 200, 400, 500	-14.5, 2.0, 30, 100, 200, 400, 500
<i>High Cv Option</i>	Yes	up to 200 psig
<i>Pressure Transducer</i>	Absolute transducer	Absolute and/or Differential
<i>Pressure Calibration</i>	6-point	2-point
<i>Electronic Regulator</i>	Optional (1)	Optional (2)
Electrical and Connectivity		
<i>AC Input Power Option</i>	88-264 VAC, 47-63 Hz, Auto-switching	88-264 VAC, 47-63 Hz, Auto-switching
<i>DC Input Power Option</i>	22-26 VDC	22-26 VDC
<i>I/O Options</i>	12 inputs/12 outputs	12 inputs/8 outputs
<i>I/O Programmability</i>	12 in / 12 out programmable	12 in / 8 out programmable
<i>I/O Cable option</i>	Cable, CTS, A12-610 (Standard x2)	Cable, CTS, P56-541
<i>I/O Power</i>	24VDC	24VDC or 115VAC
<i>Communication</i>	RS232 (2), Telnet (1)	RS232 (2), Telnet (4),
<i>Test Result Output</i>	Configurable Format	Configurable Format
<i>Email Alerts</i>	Yes	Yes
<i>Bar Code Ready (RS232)</i>	Yes	Yes
<i>USB Backup/Restore</i>	Yes	Yes
<i>USB Reports</i>	Yes	Yes
<i>USB Compatibility</i>	FAT32, USB 1.0, 1.1, 2.0	FAT32, USB 1.0, 1.1, 2.0