



EtherNet/IP™ Communication

*Leak Testing
Just Got Easier...*

Sentinel Instruments Providing
EtherNet/IP Communications

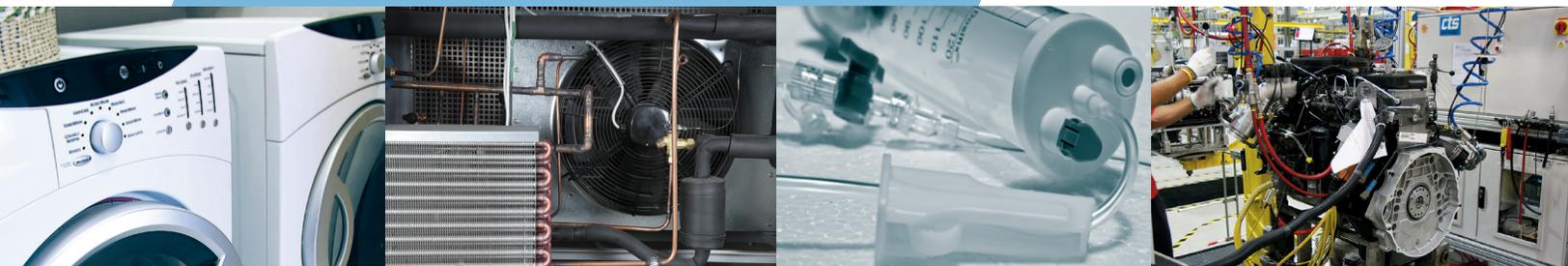


CTS System PLC



**EtherNet/IP
Network**

EtherNet/IP™
ODVA



Providing world-class leak test and assembly verification solutions to industries around the globe.



EtherNet/IP™ Communication

Ethernet/IP™ is the standard communication option for CTS Sentinel I28™, C28™, Blackbelt®, and Blackbelt Pro™ instruments that will reduce your integration costs through standardized CIP programming. Ethernet/IP is a high-efficiency unified communication network that will control, configure, and send messages between the CTS leak test instrument and Allen-Bradley ControlLogix® and CompactLogic™ controllers. Ethernet/IP is a licensed CIP™ communications network protocol which CTS is a compliant and certified vendor by ODVA™.

CTS Sentinel instruments use the RJ45 network communication port as the connection to the EtherNet/IP interface and Allen Bradley PLC that allows the user to execute Sentinel instrument I/O functions, machine functions, and communications messaging from the PLC.



View of a Sentinel I28 with EtherNet/IP connection.

Features and Benefits

- EtherNet/IP provides More I/O
 - Pre-configured and User Programmable I/O
 - No 'Extra Cost' selectable function in each instrument
 - EtherNet/IP upgrade is a field installed firmware
- Easy To Integrate with Cost Savings
 - Simple one-wire RJ45 interface connection
 - Reduces install time, faster and easier than descreet I/O hard wiring
 - CTS supplied Function Block Program simplifies connectivity and programming
- I28, C28, Blackbelt, and Blackbelt Pro are ODVA Conformant
 - Conformance Testing by ODVA ensures flawless operation and verified data exchange; 'It Works the First Time, and Every Time'

Summary of EtherNet/IP Communications

- Control and monitor of I/O functions
- Select which program to be active
- Send / Receive ASCII Barcode information to be stored with test results
 - Blackbelt and I28 instruments only
 - Field size increased to 80 characters
- Test Summary includes data and query of complete data string
- Latch feature for multi-device communications 'heartbeat' monitoring

Sentinel Instrument I/O	Additional Inputs/ Outputs			
	I28	C28	Blackbelt	Blackbelt Pro
Std. Hardware	12/12	6/3	6/6	18/18
EtherNet/IP				
- Pre-configured	10/9	10/9	10/9	18/21
- Programmable	16/16	16/16	16/16	32/32
- Total I/O	26 /25	26/25	26/25	50/53



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