



Intelligent
Junction
Box



PROACTIVE, PREVENTIVE SOLUTIONS



Remote
Monitoring
Software



**ENJOY THE
BENEFITS OF
DIGITAL
TECHNOLOGY**

Cardinal's iCan system provides a digitally-controlled, high-performance weighing and diagnostic environment for your scale where every step from installation to operation to maintenance is not only simplified, but closely monitored by the latest ISP flash micro-controller-based circuitry and reported using advanced internationally standardized CAN serial bus. What this means is the cost of ownership for your scale just got smaller since system faults are automatically detected and reported, resulting in less downtime and fewer service calls.

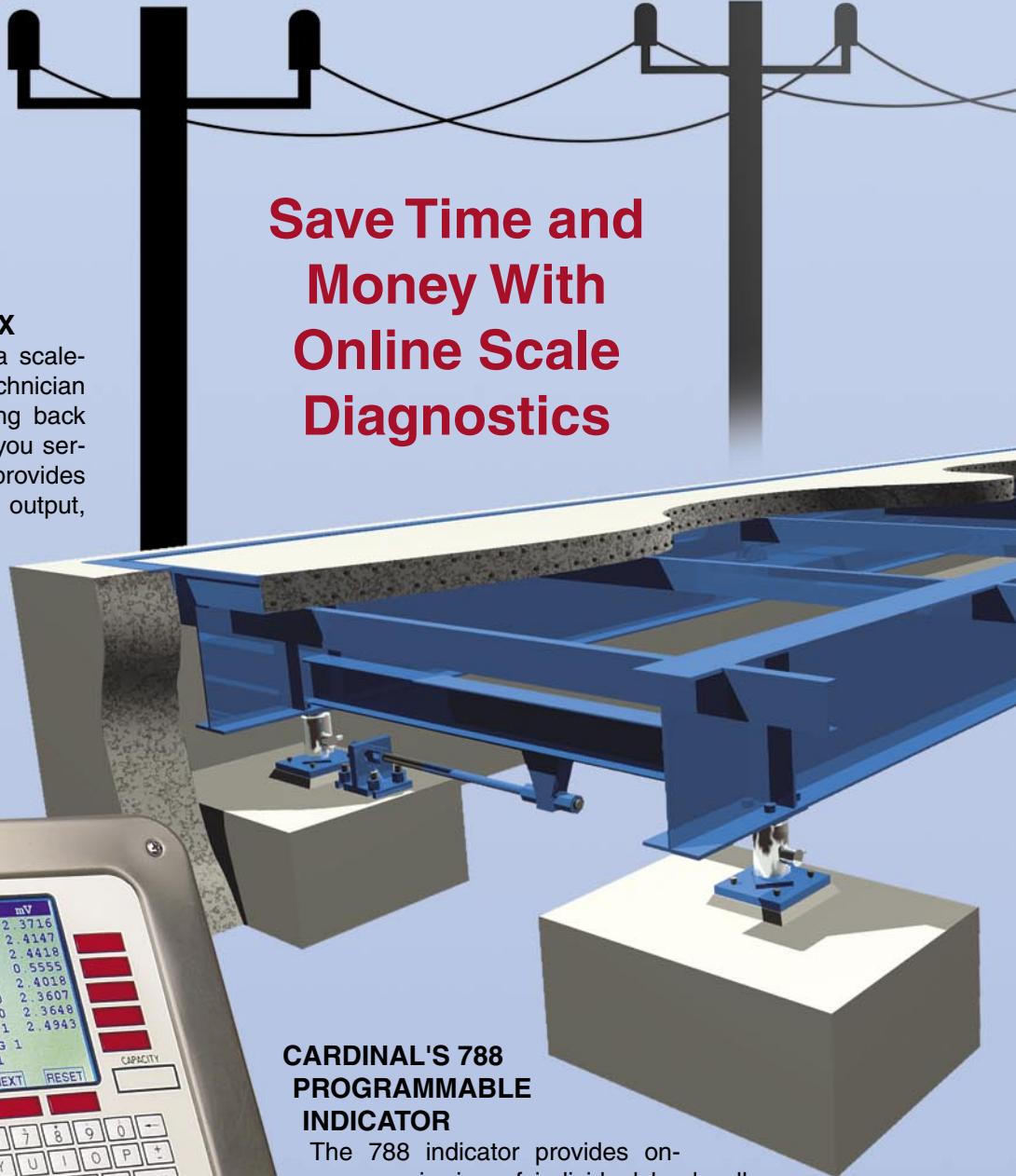
- Retrofit Existing Analog Load Cell Scales
- Eliminate Load Cell and Section Trim Headaches with SmartCal®



DIAGNOSTIC DISPLAY IN THE BOX

The iCan diagnostic display provides a scale-side weight indicator where the scale technician is working thus saving them time going back and forth to the indicator which saves you service call money. The on-board display provides a 6-digit display of load cell millivolt output, weight, and total scale weight while a single character identifies the load cell source.

The iCan system controller module is housed in a IP66/NEMA 4X junction box and is connected to the 788 indicator with transient-free plastic fiber optic cable, twisted-pair copper wire, or optional glass fiber optic cable.



**Save Time and
Money With
Online Scale
Diagnostics**



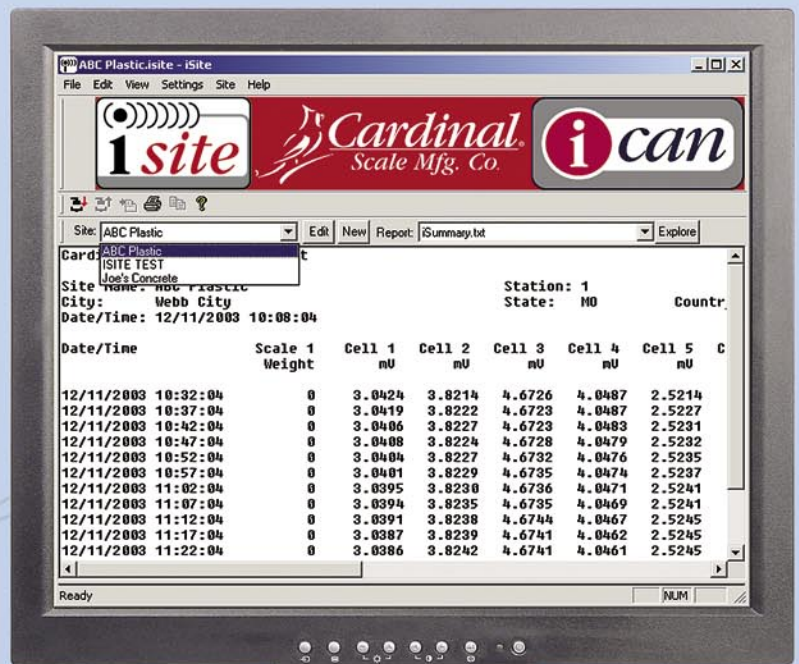
**CARDINAL'S 788
PROGRAMMABLE
INDICATOR**

The 788 indicator provides on-screen viewing of individual load cell report data, ensuring quick and concise information on your scale's performance. Cardinal's patented SmartCal® feature allows quick single-pass calibration without the need for manual adjustments. iCan's diagnostic software automatically identifies and reports potential problems before they can interrupt your weighing operations.

APPLICATIONS

- Multiple Cells - Single Scale
- Multiple Scales - Single Cell
- Multiple Cells - Multiple Scales

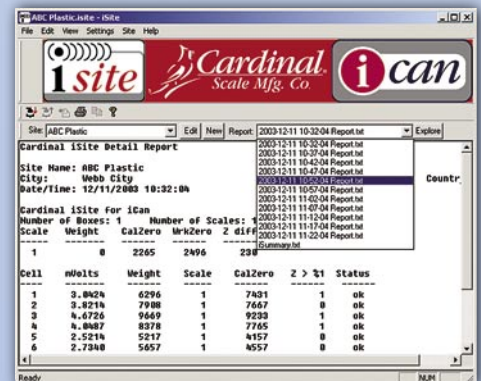
Connect with iSite Long Distance via TCP/IP or Dial-up Modem



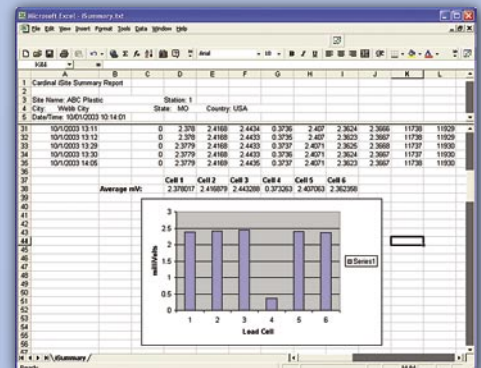
REMOTE MONITORING OF SCALE PERFORMANCE

Cardinal's iSite software and hardware facilitates electronic communications from dealer or support locations to iCan scale sites. The communications can be performed via network TCP/IP connections, direct serial port connections, or dial-up modem connections.

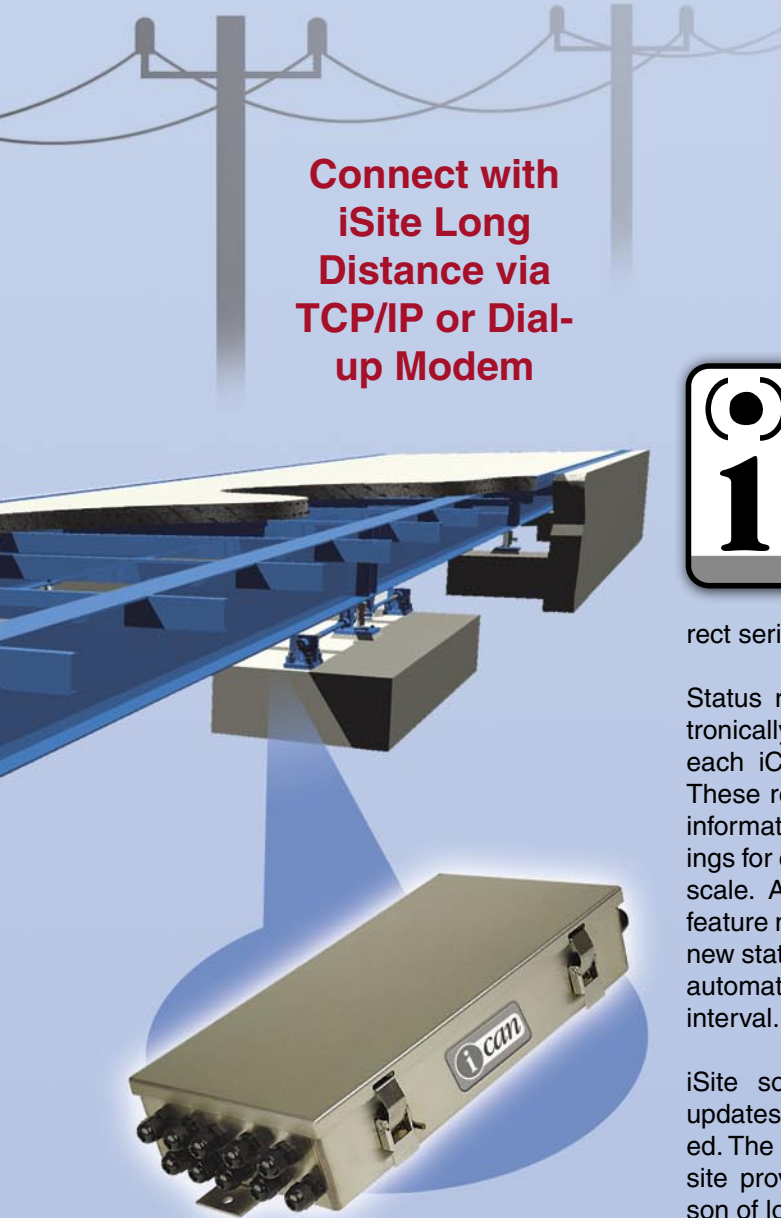
Status reports may be electronically requested from each iCan site at any time. These reports include weight information and millivolt readings for each load cell of each scale. An automatic request feature may be used to obtain new status reports from a site automatically at a specified interval.



iSite software automatically updates a summary report for each site as individual reports are requested. The summary report for a site provides quick comparison of load cell readings over the history of the site, and may be opened with Excel® to allow further analysis or graphing of the data.



Connect Up To Eight Load Cells To One Cardinal iCan Junction Box



ICAN FEATURES

- **IP66/NEMA 4X stainless steel enclosure** provides rugged, corrosion-proof protection.
- **Real-time load cell diagnostics** identifies load cell problems before they cause inaccurate weighing, so scale downtime is minimized.
- **Troubleshoot directly from the indicator** with Cardinal's model 788, giving real time operator notification of potential problems, including zero drift, instability, and load cell failure.
- **On-board diagnostic displays** (7-segment display with 14 LEDs) in the iCan provide load cell and diagnostic data right in the junction box, displaying current values where your scale technician is working.
- **Cardinal's patented SmartCal®** allows quick calibration with no manual adjustments, so there is less handling of test weights which saves time and money. Trim and calibrate scales in one pass.
- **The CAN bus multi-drop interface overcomes the limitations of daisy-chaining** where if you lose one connection, you lose them all. The iCan system can handle up to 32 load cells divided among up to 8 scales.
- **CAN bus connectivity** - Separate fiber optic or copper wire transceivers.
- **Individual cell interface cards.**
- **Ethernet interface** from Cardinal's 788 indicator allows networking capabilities.
- **Transient noise isolation** by fiber optic connection between the indicator and junction box.



Intelligent Junction Box



The iCan Junction Box meets all requirements of Handbook 44, issued by the National Institute of Standards and Technology and has been issued the Certificate of Conformance number 03-108.



Certificate Number
DK 0199-R76-03.06



Cardinal Scale reserves the right to improve, enhance or modify features and specifications without prior notice.

ICAN SPECIFICATIONS

Power Requirements	115 to 230 VAC 50/60 Hz at 1 ampere per junction box
Temperature Range (Compensated)	-13 to 104 °F (-25 to +40 °C)
Junction Box Connections	2 AC Power, 8 load cell inputs, 2 fiber optic or copper wire
Junction Box Dimensions	17" W x 9 1/2" D x 3 3/8" H (432mm x 241mm x 88mm)
Sample Rate	1 to 50 samples per second, selectable
Load Cells	Up to eight 350-ohm strain gauge load cells per box
Load Cell / Scale Capacity	Thirty-two 350-ohm load cells among up to 8 scales (8 load cells per box, maximum of four boxes)
Excitation Voltage	12 VDC
Sensitivity:	
NON-COMMERCIAL	0.15 uV/e
NTEP	0.3 uV/e (Class III/IIIL)
CANADA	0.3 uV/e (Class III/IIILD)
OIML	1.2 uV/e (Class III)
Scale Divisions:	
NON-COMMERCIAL	240,000
NTEP	10,000 (Class III/IIIL)
CANADA	10,000 (Class III/IIILD)
OIML	10,000 (Class III)
Internal Resolution	1 part in 16,777,216
Transmission Distance	Up to 300 feet, plastic fiber (30 foot minimum) Up to 5,000 feet, glass fiber Up to 1,000 feet, copper wire

Sold By:

 **Cardinal**[®]
Cardinal Scale Manufacturing Co.
203 E. Daugherty, Webb City, MO 64870 USA
Ph: 417-673-4631 or 800-441-4237 • Fax: 417-673-5001
www.cardinalscale.com