

SMART SOLUTIONS TANK MONITORING LIQUID LEVEL CONTROL & LEAK DETECTION

"Smart"-Panels®

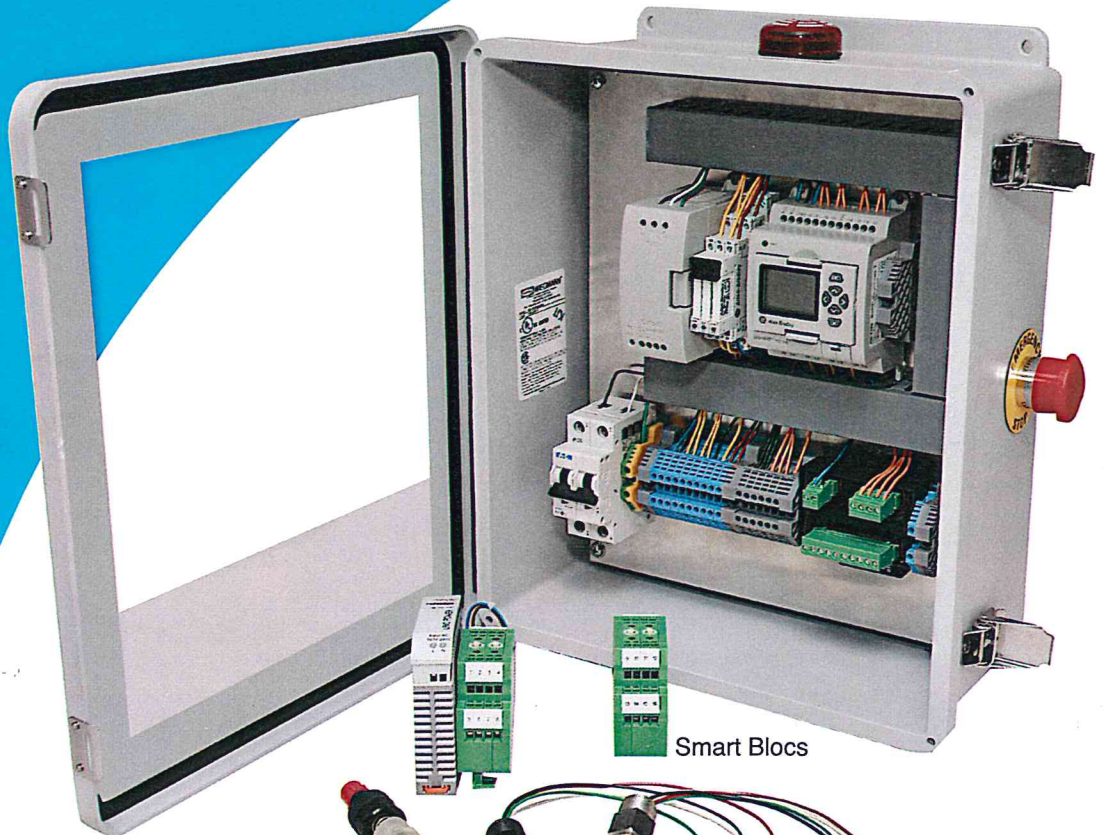
Completely packaged, unique and elegant solutions for almost any industrial liquid level control, tank monitoring or leak detection application. Models DD101 & DD102 Custom provide either "out-of-the-box" or customized solutions to the most basic or the most sophisticated tank monitoring, leak detection or level control applications. High end systems come loaded with scores of optional features and offer numerous potential configurations and expansion options, all at affordable prices.

"Smart"-Blocs®

Heavy-duty, small-footprint, DIN rail mounting controllers for OEM applications. Monitor two independent sensors or two tandem sensors working in either "pump-up" or "pump-down" mode.

"Smart"-Sensors®

Patented, optoelectronic liquid level sensors report level/leak status as well as any self-detected faults on a common signal line. Industrial or sanitary styles.



Smart Blocs

Smart Sensors

**SMART
PANELS**

"Smart"-Panel® Features... BASE MODEL "DD101 & DD102"

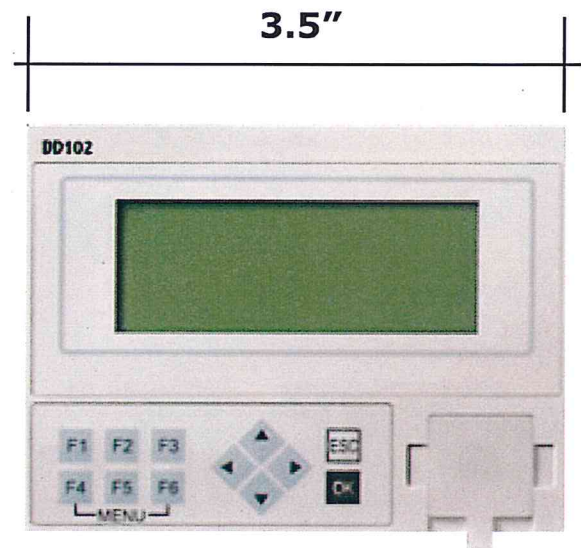
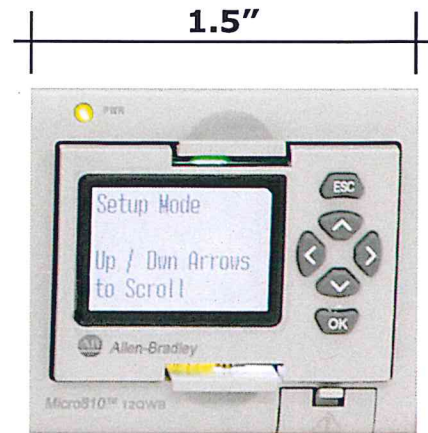
FEATURES

- Richly-featured, basic control panel.
- Easy to install, "NO" programming, just a simple setup through the PLC display.
- Small footprint (394x342x157)
- Accepts inputs from as many as four (4) KCC single-point liquid level sensors; or from three (3) KCC single-point sensors working in conjunction with one (1) KCC continuous level sensor.
- Four (4) fully configured 8 Amp., dry-contact relay outputs.
- Customer-configurable control sequences via the controller display.
- Two staged AUX outputs for controlling pumps, valves or any other equipment required for filling or draining tanks or lift station evacuation.
- "On/Off" AUX status monitoring.
- Built-in audible and visual alarms.
- Panels meet NEMA Standards 250 Type 13R, 4X, 6P and 12.
- Integrated I-S Zener barriers.
- Supplied with Kinematics' patented, self-monitoring liquid level opto-electric sensors.
- Choice of sensor styles, i.e., Industrial (N.P.T.) or Sanitary (Tri-Clamp Flange)
- Choice of sensor wetted materials, i.e., Polysulfone®, Isoplast® or PFA Teflon®, 316 stainless steel or 360 brass.
- Operator initiated or fully- automatic sensor self-calibration.

HIGH-END CUSTOM MODEL FEATURES

- In addition to standard, off the shelf models, KCC also provides a wide range of custom panel configurations.
- Full-featured, high-end, customized panels.
- Large LCD display w/keypad for easier viewing & setup.
- Expanded analog and digital I/O via additional plugin modules.
- Custom factory programming.
- Analog control of VFDs or modulating valves using self-tuning PID control.

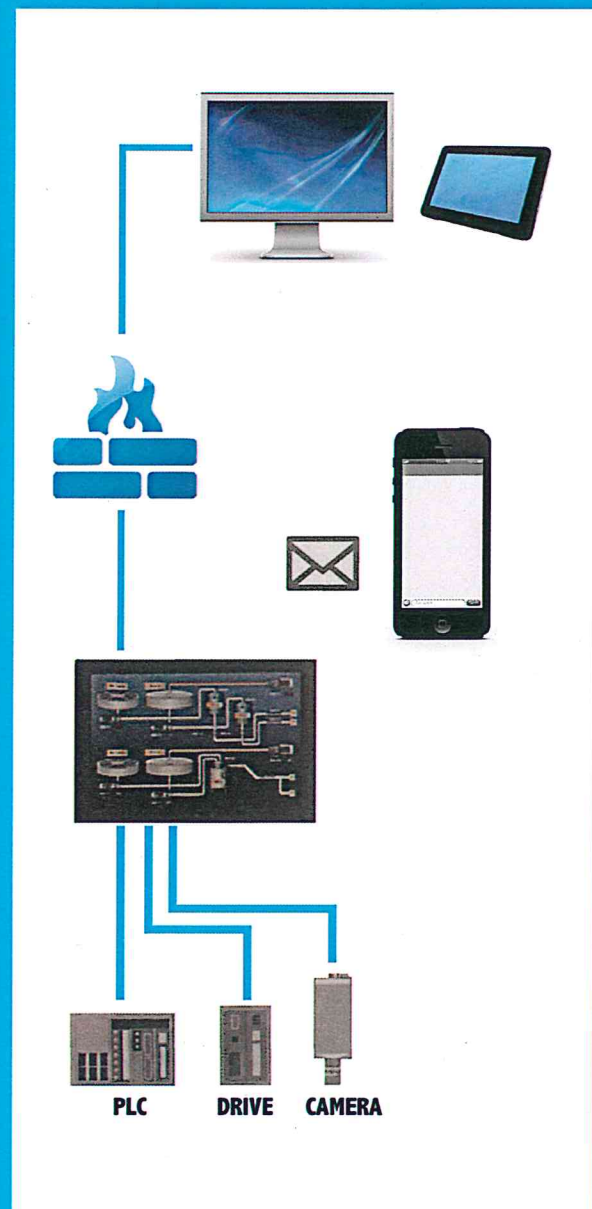
- Automatic Program Backup.
- Ethernet/IP port for RTU applications.
- 5KHz PWM output for solenoids and valves



- Custom programmed, 7" HMI operator interface, Including:
 - Data logging
 - Recipe management
 - Send text messages for alarm conditions.
 - SCADA integration with support for Modbus over serial and Ethernet LANs.
 - Can be tied into existing plant's network.
 - Variable Speed Drives or Soft-Starts or motor starters provided in panel for ease of installation.
- Add a graphical HMI for visual status.
- Cellular Radio Communications offering secure and reliable remote connectivity to deployed assets that utilize cellular carrier networks. Ideal for harsh environments. Rugged industrial routers provide simple wireless communication between SCADA servers, RTUs, PLCs, remote I/O and other Ethernet and serially connected devices such as security cameras or industrial sensors supporting the latest 4G LTE networks with fallback compatibility to 3G networks from leading global cellular carriers.
- Industrial Wi-Fi radios which offer outstanding performance and extreme reliability under the harshest conditions. IEEE 802.11n support allows our Wi-Fi radios to utilize three antennas and Multiple-In, Multiple-Out (MIMO) technology for increased data throughput, while also providing 802.11a/b/g backwards compatibility.
- Battery backup for cellular or wireless radio to always allow alarms to be sent.
- Add leak detection points with discriminating or non-discriminating sensors. Discriminating sensors can distinguish the difference between oil and water for easier and faster trouble-shooting.
- Add up to 254 additional networked panels for large installations. Can be accessed from one or multiple
- Factory field startup available.
- If our standard configuration doesn't meet your needs, we can build you a custom system that will.

CUSTOM Applications... Leak Detection/Alarming...

- Up to 20 leak detection points monitored by either discriminating or non-discriminating sensors per panel with up to 254 additional networked panels. (Discriminating sensors can determine whether the leaked substance is oil (non-conductive) or water (conductive) to make trouble-shooting your leak easier.
- Combination of 24 configurable relay AUX outputs for remote
- Plus, all the options listed above for the DD101 + DD102



SENSORS

Scan the QR code below
to be directed to our website



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