Model ID-1 Field Programmable, Single Tank
TANK INVENTORY SYSTEM

MODEL ID-1in a Stainless Steel Enclosure

Dual Model ID-1 in a Fiberglass Enclosure

Features

Continuous display of tank contents.

16 point field programmable tank linearization table allows accurate inventory display for tanks of any shape and size.

High and low level alarms are provided with relay outputs.

Specific gravity of product in tank can be changed by any authorized operator.

Field tare function eliminates the need to field adjust the sensor for minor zero shifts.

Field programmable security code prevents unauthorized changes.

Optional RS232/RS422 interface for data transmission to and from a computer or printer.

Optional linearized 4-20 mA output for interface to PLC.

Optional Nema-4 stainless steel

General Specifications

DISPLAY: 8 digit .55” high 15 segment LED.

INPUT POWER: 110 VAC ± 15%, 220 VAC ± 15%. (7 VA max.)

ENCLOSURE: 12” x 10” x 7”. Fiberglass (14” x 12” x 8” for two systems in one enclosure).

OPERATING TEMP: 32 - 130 DEG. F.

MEMORY: Non-volatile memory (EEPROM) retains all data in the event of a power failure.

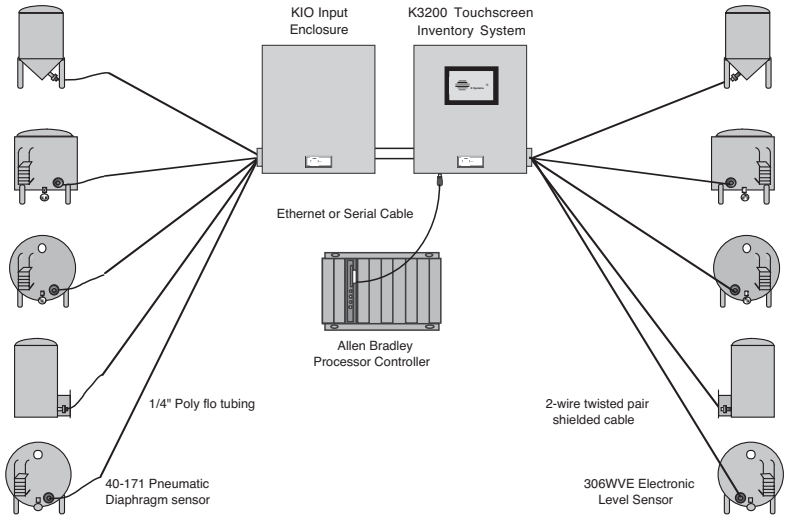
INPUT SIGNAL: 4-20 mA 2 or 3 wire configuration. Will operate with all types of level sensors producing an analog output proportional to level.

DC POWER: 24 VDC at 100 mA available to power transmitter.

RELAY OUTPUTS: 2 form C rated at 5 amps NI.

TRANSISTOR OUTPUTS:2 NPN open collector outputs at 100 mA each. Transistor outputs activate when the relay coils energize.

Multi-Tank Inventory Systems



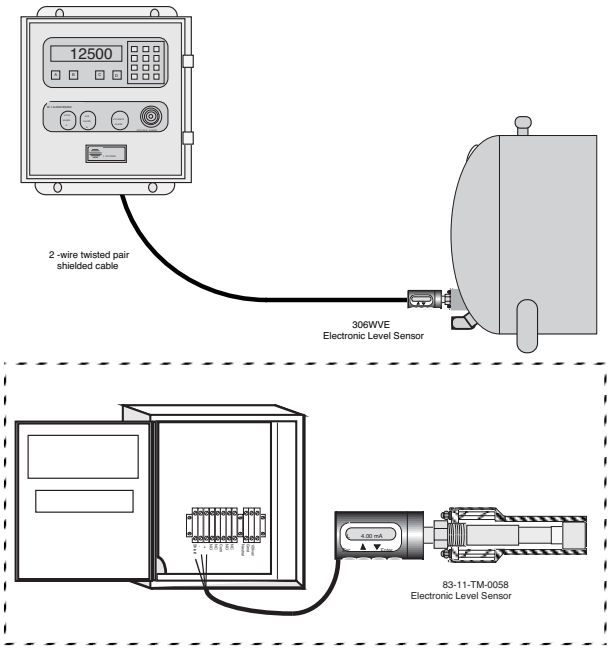
The KH1600 and K3200 K Systems inventory systems accommodate up to 80 tanks and provide a graphic touch interface operator terminal for data entry and screen control. The display shows tank contents, level and product information on one page and can transmit inventory values to Plant Control PLC's utilizing protocols such as Allen-Bradley ControlLogix Ethernet - DF1,SLC DH485 - DF1, -TCP/IP, PLC5 - DF1, Modbus Master ASCII - RTU, Slave RTU.

GENERAL OPERATION

Product head pressure is measured by the Pneumatic or Electronic Level sensors and transmitted to the KIO Input Enclosure where an automatic zeroing function can be performed. The pressure signal is digitized and processed by the K3200 system into Gallons, Pounds, Liters or Kilograms having been compensated for product Specific Gravity, Sensor location and Tank profile. These values are displayed on a local touchscreen and can be uploaded to an Allen Bradley Controller in addition to being shown on multiple remote screens.

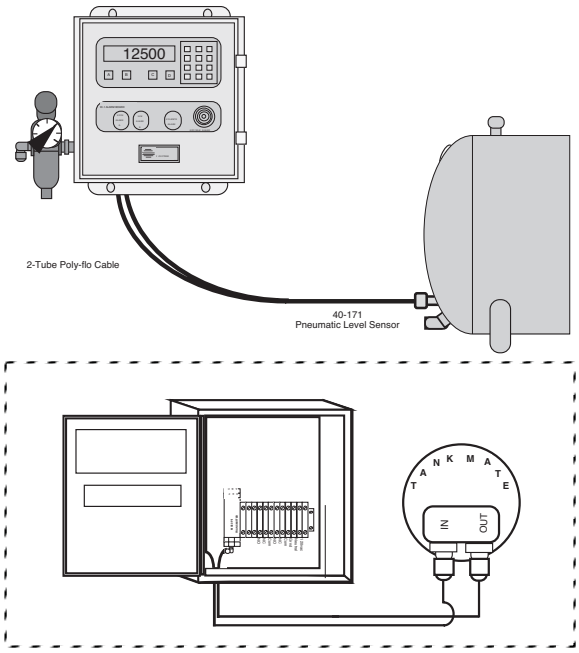
TANKMATE ELECTRONIC LEVEL SENSOR INSTALLATION

ID-1 SINGLE TANK DIGITAL



TANKMATE PNEUMATIC LEVEL SENSOR INSTALLATION

ID-1 SINGLE TANK DIGITAL



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