

## Service and Calibration Kit



#### **FEATURES**

- Start-up calibrate and troubleshoot process weighing Systems
- · Simultaneous individual load cell measurement
- Pre-calibrated for mV/V, percent of load, and force units
- · Includes instrument calibrator
- · Remote connection cable assemblies
- · Rugged portable suitcase design with shock mounting
- Troubleshooting procedures manual

## **DESCRIPTION**

Start-up, commissioning, routine servicing, and calibration of process weighing systems can be simplified significantly using the FSk-40 Service and Calibration Kit. This complete kit is equipped with a four-channel load cell instrument, an instrument calibrator, a serial communication module, operation and servicing manuals, and a set of 10-foot remote connection cables. The entire assembly is housed in a rugged, portable suitcase with shock mounting.

The core of the kit is the four-channel instrument that makes it possible to measure the output of each of up to four load cells simultaneously and independently. This powerful tool greatly reduces the time needed to identify mechanical restrictions, mechanically

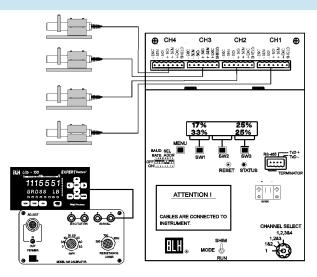
balance the system, and isolate load cells for troubleshooting. The instrument is factory pre-calibrated to provide individual readout in mV/V, and percent of load or conventional units of force. In addition, the instrument is equipped with a serial port and adapter for logging of data on a PC or serial printer.

For troubleshooting and calibration of associated instrumentation, a precision calibrator is included. To facilitate easy remote connection to individual load cell cables inside a summing box, special 10-foot wiring harnesses with spring loaded connectors are included. Finally, a comprehensive manual describing the techniques professions use to properly configure, calibrate and troubleshoot weigh systems is also included.

## **APPLICATIONS**

- Field service
- Calibration
- Test & measurement

## **CONFIGURATION**



## Service and Calibration Kit



## **SPECIFICATIONS**

**Performance** 

Internal Resolution 4,194,304 total counts
Max. Display Resolution 3,000,000 total counts
Max. Resolution/Channel 750,000 counts
Conversion Speed 50msec (20 updates/sec)
Sensitivity (Noise) 0.0011% full scale

(max +/-16 counts w/o filter)

Full Scale Range 35mV/channel

Dead Load Range 100%

Input Impedance 10 M-ohms, min. per channel 10V 2 x 350 ohm load cells,

65mA/channel max

Remote Sense user configurable - each channel

Linearity ±0.0015% of full scale Calibration Repeatability 0.3 microvolt per count Software Filter (Std.) 50 to 6400msec

Dynamic Digital Filter multi-variable to 64 seconds (opt.)

**Temperature Coefficient** 

Span/Zero ±2ppm/°C
Step Response one conversion
Common Mode Rej. 100db @ 60Hz
Normal Mode Rej. 100db above 35Hz

**Environment** 

 $\begin{array}{lll} \mbox{Operating Temperature} & -10 \mbox{ to } 55^{\circ}\mbox{C} \mbox{ (12 to } 131^{\circ}\mbox{F}) \\ \mbox{Storage Temperature} & -20 \mbox{ to } 85^{\circ}\mbox{C} \mbox{ (-4 to } 185^{\circ}\mbox{F}) \\ \mbox{Humidity} & 5 \mbox{ to } 90\% \mbox{ rh, non-condensing} \\ \mbox{Voltage} & 117/230 \pm 15\% \mbox{ 50/60Hz} \\ \end{array}$ 

Power 12 watts max Parameter Storage EEPROM

EMI/RFI Shielded from typical industrial

interference

**Enclosure** 

Dimensions see outline dimensions below

Internal Display/Operator Interface

High-Contrast 2 columns of 20 Vacuum Fluorescent 1 characters each 4 'soft buttons'

**BLH Digi-System Network** 

Type RS 485 Half Duplex (Multi-Drop)

Baud 9.6K, 28.8K, and 56.7k

Data Format proprietary

Standard Simplex Data Output (Transmit Only)

Type RS 485 (Simplex) Baud 1200 or 9600

Data Format (Selectable)

ASCII 7 data bits even parity stop bit

**Terminal/Computer Interface** 

Interface Type RS 485 Half Duplex (Standard)

Baud 1200 or 9600

Protocol Duplex Command/Response

Format ASCII 7 data bits even parity

stop bit

Weight

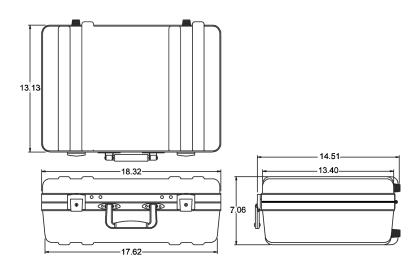
Complete Case approx. 19 lb

Calibration

Recalibration Interval 1 Year 1 Year 1 Year 1 Year 4<0.02%

range/year

#### **DIMENSIONS**



# **Legal Disclaimer Notice**



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