

FAIRBANKS®

2500 FLASH SERIES INSTRUMENTS WITH INTALOGIX™ TECHNOLOGY



INTALOGIX™
TECHNOLOGY



With Fairbanks' 2500 Flash Series technology, you are able to use a single instrument for all your weighing applications.



FAIRBANKS®

2500 FLASH SERIES INSTRUMENTS WITH INTALOGIX™ TECHNOLOGY

The 2500 Flash Series Instruments with Intalogix™ Technology offer you a comprehensive selection of programmable indicators designed to function in the most basic weighing operations or in very sophisticated data collection and management systems.

INTALOGIX TECHNOLOGY

Intalogix Technology is a unique method of digital load cell communication that works by converting weak analog load cell signals to a stronger, faster digital interface. Whether you're using simple floor and tank scales or heavy capacity truck and railroad track scales, Intalogix Technology allows you to operate with a higher degree of resolution and accuracy. Through a unique process of digital load cell multiplexing, the 2500 Flash Series will allow you to reach a new range of accuracy in most weighing applications, using standard load cell technology. No proprietary load cells are required.

DIGITAL SIGNAL ADVANTAGES

Digital load cell signals allow for increased accuracy, higher performance, longer cable runs and enhanced load cell diagnostics. The true digital load cell interface provides unmatched resistance to outside interferences and influences. The digital signal used with Intalogix Technology is over one million times stronger than conventional analog signals. The stronger digital signal is far more resistant to Electromagnetic Interferences and Radio Frequency



Fairbanks' exclusive digital technology, coupled with the 2500 Flash Series instruments, makes tasks such as filling a tanker on a truck simple, yet accurate by using the predictive cutoff application program.

Interferences that are known enemies of analog systems.

MULTIPLEXING OF LOAD CELLS

By digitally multiplexing the load cell signal, each load cell in the system is given a specific unique identifier. This digital identifier allows the system to communicate with each cell individually. The scale performs almost like each cell is a scale.



With the system constantly monitoring scale performance, simultaneous load cell diagnostics keep the operator informed every step of the way.

LOAD CELL PROTECTION

When installed with Fairbanks Smart Sectional Controllers, Intalogix provides the best load cell protection available in the market today. Each load cell is optically isolated on the signal side, providing a virtually impenetrable barrier of protection against voltage surges. Communicating through optic isolation allows digital signals to pass through while all other signals and surges are blocked. Intalogix provides the best surge voltage protection available today.

LOAD CELL DIAGNOSTICS

Each load cell is assigned a digital ID. By communicating with each load cell individually by its digital ID number, the system is constantly analyzing the scale's internal performance. This is an extremely fast, yet thorough process since each load cell is processed 16 times a second!

Continued on page 2

Continued from page 1

DIAGNOSTIC MENU

With one quick view, you can easily view a “live,” simultaneous diagnostic report of all load cells in the system. Each individual load cell’s performance is displayed on one screen for quick, easy diagnostic information at a glance. This is the equivalent to looking at the vital signs of your scale’s operation. No other manufacturer can offer such a unique, informative feature. All of the combined diagnostic features are designed to maximize scale operation time.

DISPLAYED MESSAGES

If a problem is ever detected, the instrument immediately alerts the operator with simple to understand error messages, allowing instantaneous diagnostic capabilities through modem or on-site service.

FLASH SERIES INSTRUMENTS

The 2500 Series Instruments feature the added benefit of flash memory capabilities through the use of Winlogix 2001 software. These indicators also meet your light capacity needs, as well as all your heavy capacity applications.



With the system constantly monitoring scale performance, simultaneous load cell diagnostics keep the operator informed every step of the way.

FLASH ADVANTAGES

The 2500 Flash Series allows a single instrument to operate any one of several application programs. You are able to customize your instrument to meet your application needs by simply flashing in a new program. No need to change your operation requirements to meet the functions of the instrument. As your application needs change, the Flash Series instruments are designed to grow with you.

LARGE DISPLAY

All 2500 Flash Series indicators have a full-featured LCD graphic display with LED backlighting and alphanumeric



The large, easy-to-read display allows the operator to clearly view detailed information — in this case it's the 2500 Flash Series Highway System.

characters. The display consists of 16 lines by 26 characters, allowing all operation information to be seen at a glance from the front panel. The display contrast is adjustable to compensate for any lighting conditions, making these instruments very user-friendly.

MULTIPLE SCALE CONTROL

One 2500 Flash Series Instrument can operate up to four scales. This multi-scale capability helps you gain control of costs and helps solve logistical and operational problems, leading to an increase in efficiency. Multiple scale control through a single instrument also allows you to maintain one single source for all transaction processing, storage, maintenance and reporting controls.

REPORT CAPABILITIES

There are two different report generators available with the 2500 Flash Series. You have the ability to set them up to meet your exact needs. You can produce complete reports, or just specific portions of it. It's up to you to decide. You also have the ability to have the report prioritize information according to your



Each 2500 Flash program is designed to work with a specific application — shown here is barcoding.

Continued on page 3

Continued from page 2

specifications. As an added benefit, numeric data can also be filtered against a search field, giving you the ability to customize your reports.

APPLICATION PROGRAMS

The application programs available for F2 instruments include predictive cutoff, barcoding, high-way systems, networking configuration, full and short length axlematic configuration, as well as multi-platform networking.

APPLICATION EXPERTISE

Put the advantage of Fairbanks' 170 years of expertise to work for you. With our Flash Technology and scale experience we have developed specific applications to meet your needs. Whether it's interfacing to existing equipment or completely changing your weighing operations, we have the ability and technology to meet your application needs without the need for costly new equipment.

WINLOGIX 2001 SOFTWARE

Designed specifically for all 2500 Flash Series indicators, Fairbanks' exclusive Winlogix 2001 software allows the operator to configure and program the instrument from a computer. Winlogix 2001 software is a Windows-based program that's easy to use. It features pull-down menus, large descriptive prompts and buttons, as well as informative dialog boxes. Even the most inexperienced computer operator will learn how to use the software with relative ease.

WINLOGIX 2001 ADVANTAGES

All of the set up and initial

TRANSACTION REPORT							4:28AM 7-30-1999 page 1
MAIL ID	DATE	INBOUND lb	OUTBOUND lb	PRODUCT ID	TRUCK ID		
JB TRUCKING	7-29-1999	4280	53480	ROCK	1235		
JB TRUCKING	7-29-1999	19840	30960	ROCK	1478		
JB TRUCKING	7-29-1999	15520	65000	SAND	1258		
JB TRUCKING	7-29-1999	9360	24840	SAND	9874		
NUMBER OF TRANSACTIONS 4		125280 lb NET					
MAIL ID	DATE	INBOUND lb	OUTBOUND lb	PRODUCT ID	TRUCK ID		
A1 SERVICE	7-29-1999	9980	25440	ROCK	2589		
A1 SERVICE	7-29-1999	16100	65640	ROCK	4563		
NUMBER OF TRANSACTIONS 2		65000 lb NET					

calibration parameters, customer files, stored tare weights and product files can be programmed directly from your computer through the use of Winlogix 2001 software and immediately sent to the indicator by modem or a direct serial cable connection. As an added safety precaution, a copy of these files can be quickly stored in the computer. Fairbanks' unique modem capabilities also allows your scale to be diagnosed over the phone. Through the use of Winlogix 2001 software you can easily check live load cell counts, conduct communication port testing, and program scale parameters.

REPORT DOWNLOADING

Through the 2500 Flash Series indicators, you're able to access your daily transactions via the modem or direct serial connection. Simply retrieve the transactions from the instrument at any time



Through the use of Winlogix 2001 software and a phone modem, it's easy to monitor load cell performance.

Sorted and grouped reports can be quickly and easily configured to provide you detailed information.

and import them into almost any database or spreadsheet.

REMOTE TESTING

Fairbanks' Modem Service can provide true off-site diagnostic capabilities. Through the use of a modem connection on the 2500 Flash Series instruments, the testing technician has the ability to monitor each load cell in the scale in *real time* — from anywhere in the world. This information can be printed and stored to develop a performance history for the scale. Regularly scheduled modem service can even allow the technician to predict a potential load cell failure before it even occurs, so you save valuable time and money by eliminating scale downtime.

ACCURACY AND DEPENDABILITY

By maintaining regularly scheduled modem service between scheduled calibration tests, you are assured of consistent scale accuracy, as well as optimal scale performance. Should a problem ever be detected through the use of the modem, you will be notified immediately and a technician dispatched to fix the problem.

Continued on page 4

Continued from page 3

FILE STORAGE

By using the available modem service, it's easy to back up all the instrument files on a regularly scheduled basis. So, if you want to save calibration, configuration, customers, product or even tare files, you can do it all through the use of your modem. If system problems do occur, these same back-up files can be used to quickly restore scale operation.

SCALE STANDARDIZATION

With Winlogix software, it's easy to develop master configuration and calibration files for both light and heavy capacity applications. Plus, you're not limited to just one scale because different master configurations can be developed for larger operations and numerous scales. This technology makes standardization easy!

LIGHT CAPACITY APPLICATIONS

The 2500 Q Series Instruments with Intalogix Technology allow a light capacity scale such as a floor scale or weighing assembly to operate with a higher degree of accuracy and internal resolution.



Through the use of a modem and the 2500 Flash Series instrument you can troubleshoot your scale, saving you both valuable time and money.

TANK WEIGHING APPLICATIONS

Accurate results are easy to obtain right from the very start without the use of test weights. Simply type in the sensitivity of the load cell output and you should achieve the specified accuracy within a few divisions.

PLC INTERFACING

Some models in the 2500 Flash Series are compatible with a PLC interface. From one instrument, you have the ability to choose from four of the leading fieldbuses, including Profibus, ControlNet, DeviceNet and Modbus Plus. This

allows greater compatibility of our indicators to your existing operations and equipment.

INTALOGIX CONVERSION KIT

Intalogix Technology with the 2500 Flash Series instruments is compatible with almost any manufacturer's analog system. Existing scales can easily be converted from an analog scale to a digital system through a Fairbanks Intalogix Technology conversion kit. Your scale becomes a new state-of-the-art system, achieving the highest levels of accuracy, reliability and dependability.



Convert your analog scale to a state-of-the-art digital system with Fairbanks' exclusive Intalogix Technology conversion kit.

ENCLOSURES

Specifically designed with operator ease in mind, these instruments make weighing a simple operation with limited keystrokes and an easy-to-read display. They're available in four different versions: standard desktop, stainless steel NEMA 4X rated models, NEMA 4X Desktop models and the stainless steel NEMA 4X rated Q Series indicators for light capacity applications.



The 2500 Flash Instruments allow you to achieve a higher degree of accuracy in most tank weighing applications.

FAIRBANKS®

2500 FLASH SERIES INSTRUMENTS WITH INTALOGIX™ TECHNOLOGY

SPECIFICATIONS FOR THE INSTRUMENTS

Models	2500-F1 desktop; 2500-F1 NEMA 4X wall mount; 2500-QF1 NEMA 4X wall mount; 2500-F2 desktop; 2500-F2 NEMA 4X wall mount; 2500-QF2 NEMA 4X wall mount; 2500-QF2 NEMA 4X desktop; 2500-QF2 NEMA 4X desktop with internal QMB;
Display	3.06" x 3.72" LCD, LED backlit graphics
Displayed Characters	0.5"
Display Resolution	10,000 divisions commercial; 50,000 divisions for non-commercial
Capacity	Programmable to 999,999
Displayed Units	16 programmable options
Calibration & Configuration	Parameters can be downloaded or uploaded from a computer for long term storage and diagnostics
Humidity	0 to 95%; NEMA 4X enclosure = 100%
Enclosure	Stainless steel (NEMA 4X rated enclosure available)
Power Requirements	100 to 130 VAC or 200 to 260 VAC; 50/60 Hz; 1 amp max. at 115 VAC
Accuracy	Class III/IIIL
Memory	64K (F1 models only); 320K (F2 models only)
Product Files	50 (F1 models only); 100 (F2 models only)
Field Names	7 field names traceable in transaction record; F1 1 traceable F2 7 traceable
Mail ID	200 stored customer files each with four lines of data, up to 31 characters per line (F2 models only)
Stored Tares	100 (F1 models only); 200 (F2 models only)
Transaction Records	900 (F1 models only); 1648 (F2 models only)
Reports	Two transaction reports are customer programmable to generate any or all portions of a transaction record in a prioritized order
Keyboard	Oversized keypad, nine function keys 0-9 and decimal point
Clock	Real time clock, day of the week, 12-hour am/pm, month/day/year date
Modem Service	Hayes compatible modems from 300-19,200 baud
Multiple Scales	2500-F1 & 2500-F2 = One instrument can run up to 4 scales to a maximum of 32 load cells per instrument; 2500-QF1 & 2500-QF2 = One instrument can run up to two scales to a maximum of 8 load cells (2 QMBs) per instrument

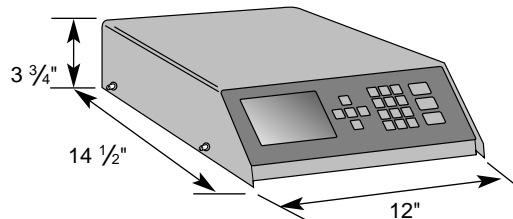
Serial Inputs/Outputs for All Models	COM 2 = Full 9-pin (modem compatible) RS232C; COM 3 = RS232C (4-wire); Dedicated 20mA optically isolated remote display interface
Serial Inputs/Outputs for F2 Models Only	COM 4 = Full 9-pin (modem compatible) RS232C; COM 5 = RS232C (4-wire) or RS485; Smart analog output 4-20mA
Peripheral Devices	Ticket printer; Tape printer; Form printer; Remote display; Bar code printer
Accessories	Smart sectional controller; Power supply; Modem and registration; Quad multiplexer board; Relay cutoff box and cable; Relay accessory box for traffic lights; PLC interface cards; 104-key PC compatible keyboard for alphanumeric character entry;

SPECIFICATIONS FOR WINLOGIX 2001 SOFTWARE

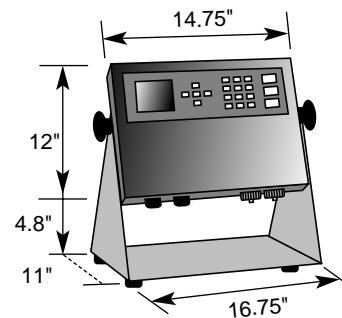
System Requirements	Windows '96, '98; Pentium processor; 1 MB of hard drive space, 16 MB RAM
-------------------------------	---

INSTRUMENT DIMENSIONS

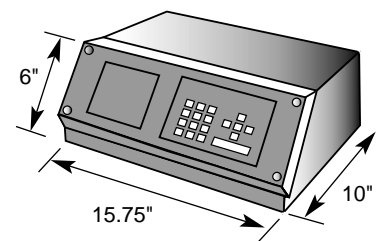
2500 Flash Series Desktop Model



2500 Flash Series NEMA 4X Wall Mount



NEMA 4X Desktop Model



Note: Shown with optional mounting bracket

Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

(800) 451-4107

Call between 8:00 a.m. – 5:00 p.m. CST

Corporate Offices: 821 Locust • Kansas City, MO 64106 • (816) 471-0231



St. Johnsburry manufacturing facility registered in compliance with ISO 9002.

