

FAIRBANKS®

2800 SERIES INTRINSICALLY SAFE INSTRUMENT WITH INTALOGIX® TECHNOLOGY



These rugged and economical indicators are designed to handle a variety of hazardous applications and feature the world's best digital load cell communication technology.



FAIRBANKS®

2800 SERIES INTRINSICALLY SAFE INSTRUMENTS WITH INTALOGIX® TECHNOLOGY

Fairbanks Scales has one of the most extensive weighing instrumentation lines in the world. Our 2800 Series Instrument combines the digital advantages of Fairbanks exclusive Intalogix Technology with a state-of-the-art, intrinsically safe design to achieve ultimate weighing performance in today's hazardous environments.

2800 SERIES INSTRUMENT: INNOVATIVE, SAFE, TIME TESTED

Since 2001, the Fairbanks 2800 Instrument has improved customer weighing efficiency and operational safety. The features and benefits of this exciting, intrinsically safe product are remarkable.



Take a look:

- The fastest and easiest calibration system on today's market. There's no need to drain tanks or hoppers or hang test weights when replacing a load cell. Simply install the cell and enter its output specifications into the 2800. Downtime is virtually eliminated!
- Features weight to gallon conversion.



Fairbanks' intrinsically safe 2800 Series Instrument is designed to perform with virtually any scale system. It is perfect for numerous chemical and food processing applications such as manual batching, auto batching, setpoint and PLC interfacing via 4 to 20mA.



The 2800 Series is the first Fairbanks instrument with the ability to operate in hazardous environments and feature our exclusive, digital, load cell communications technology, Intalogix® Technology.

- The 2800 is equipped with dual displays — a seven segment liquid crystal display (LCD) for communicating weight data; and a secondary 16 character alphanumeric LCD for operator prompts and messages.
- Programmable Zero Band Error helps eliminate the possibility of an operator unintentionally masking an error or “zeroing” the error off.
- Up to eight setpoints (relays) can be enabled using the 2800's Setpoint Accessory Box. Four modes of setpoint operation are standard on the instrument: setpoint mode, check weigh mode, batch mode and auto batch mode.
- Relay control buttons are located on the front of the instrument in a large, bright yellow, easy-to-read design.
- The 2800 is also front panel programmable. Target weights are quick and easy to change as your processes change throughout the day.
- Peak Hold function allows the greatest net weight value to be held in memory until the Clear key is pressed.
- Features a passive Smart high resolution 4 to 20 mA analog output with resolution of up to 65536 (16 bit).

2800 SERIES PRODUCT FAMILY WILL MEET YOUR NEEDS

Fairbanks has made it easy to create the perfect intrinsically safe environment with the 2800 Series Instrument and one or more of the following low-cost, Fairbanks accessories

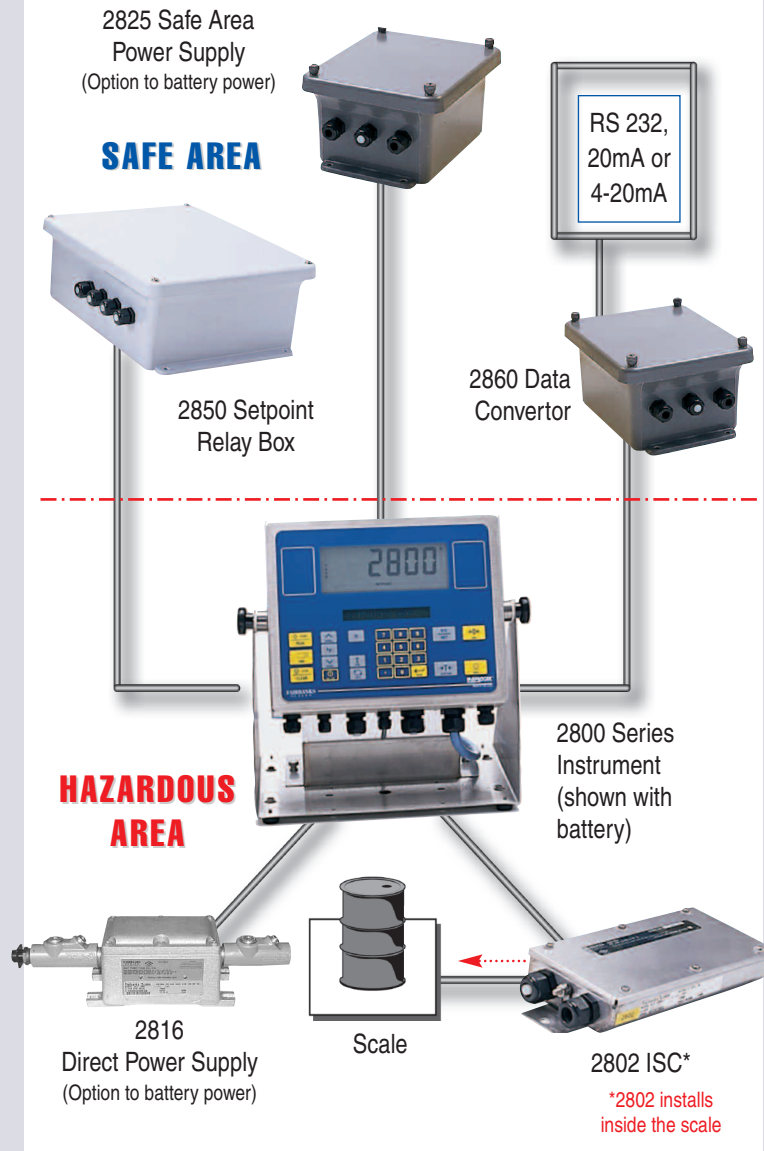
2860 DATA CONVERTER

The 2860 is a safe area, fiber optic converter box. This accessory receives fiber optic communication from the 2800 via 5806 fiber optic cable. It converts the data to RS 232, 20 mA, or Smart 4 to 20 mA for communication with printers, PCs and other technologies. The 2860 can be located up to 200 feet away from the 2800 Instrument.

2825 SAFE AREA POWER SUPPLY

When interfaced with the 2800, the 2825 provides a safe area AC power source that eliminates the need for battery power. The 2825 is not Factory Mutual approved for Groups A or B when used with the 2802 Intrinsically Safe Controller. However, it is FM approved for all Groups, Classes and

2800 Instrument System Schematic



Divisions when used with the 2880 Analog Load Cell Interface.

2816 DIRECT POWER SUPPLY

Provides intrinsically safe power in hazardous environments.

2802 INTRINSICALLY SAFE CONTROLLER

Fairbanks' 2802 is a digital load cell interface box that converts a standard analog load cell signal to a digital signal. Each ISC controls up to four load cells.

2850 RELAY BOX

The 2850 accessory is a safe area Setpoint Relay Box. It holds eight type 'C' relays (included with accessory) and connects to the 2800 instrument via 5806 fiber optic cable. The 2850 offers four modes of setpoint operation.

Relay specifications:

24 VDC; 1 CA @ 28 VDC,
120 VAC, 1/3 HP @ 120 VAC;
240 VAC

2880 ANALOG LOAD CELL INTERFACE

The 2880 plugs inside the 2800 Instrument and allows up to 16 (350 or 1,000 ohm) analog load cells to be interfaced. The user can replace virtually any other intrinsically safe instrument, even in analog applications.

Fairbanks' 2816 can power up to two 2800 Instruments and replaces the need for batteries.

LOOKING FOR PEACE OF MIND IN A HAZARDOUS WORLD?

Fairbanks Scales pioneered intrinsically safe scale equipment to provide a safe alternative for weighing operations that, due to their nature, are at higher risk for fire or explosion. Fairbanks continues its leadership role today with the 2800

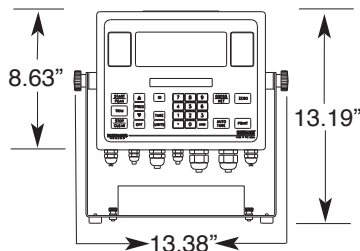
Series instrument. The 2800 will increase the safety, accuracy and efficiency of your potentially hazardous weighing operation. Our confidence is backed by Factory Mutual engineering and research, which has approved the use of the 2800 for

Class I, II, III Division I, II, Groups A, B, C, D, E, F and G. The 2800 also meets or exceeds the requirements of National Institute of Standards and Technology's Handbook 44 for use in commerce. Evaluated under NTEP.

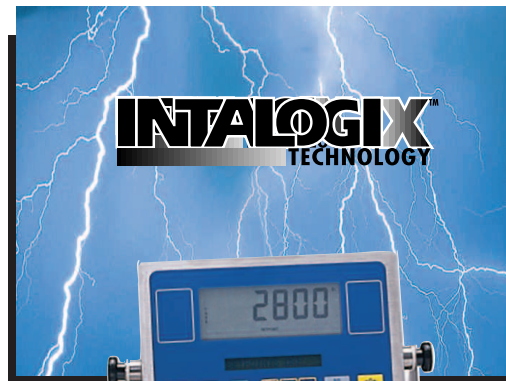
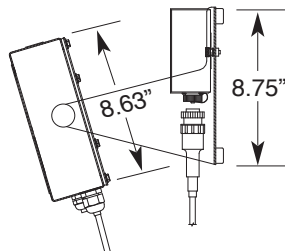
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2800 DESK MOUNT



2800 WALL MOUNT



SPECIFICATIONS

Model number	2800
Display resolution	10,000 divisions for commercial 30,000 divisions for non-commercial
Units	lb, oz, g, kg, ton, lb-oz, weight-to-gallon conversion (field programmable)
Auto zero tracking	Programmable
Keypad	Full numeric with tactile feedback
Pushbutton zero range	2% or 100%
Pushbutton keys	Tare, auto tare, zero, print, gross/net mode, units selection, enter, program, scroll, start, start, trim, I.D. (six characters)
Balance detector	Programmable
Weight display	1.25" high, seven segment, six digit, Liquid Crystal Display (five digits with minus sign)
Secondary display	0.38" x 0.191", 16 character Liquid Crystal Display
Display update rate	Programmable 0.1 to 0.8 seconds
Graduation size	0.0002 to 50 in increments of 1, 2 and 5
Load cells	Up to 16 load cells
Enclosure	304 Stainless steel, NEMA 4X
Data protection	100% retention of all stored data by EEPROM
Over/Accept/Under	Annunciator displays within one division size of predetermined weight range
Humidity	0 to 100%. Suitable for washdown
Recharge warning	Displays when battery is within 80-90% of total dis- charge
Low battery warning	Displays when instrument will no longer operate without safe area recharging (95-98% discharge)
Approvals	NTEP CC# 01-009 Factory Mutual

DISCOVER THE POWER OF FAIRBANKS EXCLUSIVE INTALOGIX® TECHNOLOGY

What makes the 2800 Series Instrument so unique among Fairbanks products is the combination of its intrinsically safe design, full Factory Mutual rating and Intalogix Technology capabilities. Intalogix, Fairbanks' innovative digital technology for load cell communication, offers superior load cell diagnostics, quick and easy mV calibration, error messages and programmable zero shift.

REASONS WHY YOU NEED A 2800 SERIES INSTRUMENT WITH INTALOGIX

Let's face it, bad things happen to good people. Because we live in an imperfect world, load cells are finite devices with limited life cycles and they do fail. When load cells fail, they cause major errors that cost your business time (down time), money (lost production) and possibly reputation damage (degraded product quality or incorrect product manufacturing). With the 2800 Series, these issues are virtually eliminated. The 2800 notifies the operator immediately when serious problems occur and helps the technician quickly locate, diagnose and correct the problem.

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. Central Time

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

<http://www.fairbanks.com>



St. Johnsbury manufacturing
facility registered in
compliance with ISO 9001.

