

UL Certified Intrinsically Safe. Versatile indicator for hazardous locations.

IS rechargeable battery or AC | Backlit display
304 stainless | Built in the USA

Doran. Powering Performance.



doran®

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8100IS SERIES INDICATOR

Simple weight only.
Scroll to access LB, KG,
OZ or G mode. Simple
data output via fiber optic
interface to safe area
printer or data collection
software. Powered by
IS rechargeable battery
or AC. Use with up to
4, 350-ohm load cell
systems. Two remote
switch inputs.

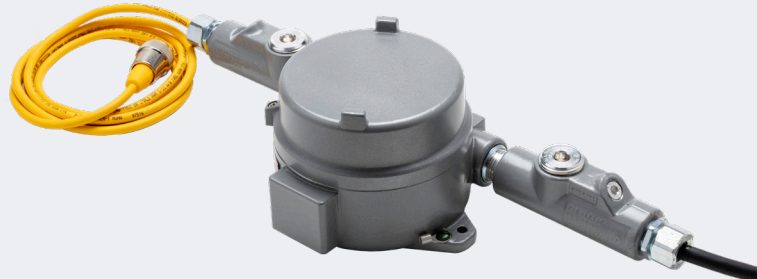


Intrinsically Safe Indicator

The 8100IS is part of Doran’s line of intrinsically safe equipment that sets a higher standard. With precision engineering and exceptional build quality, the Doran 8100IS meets the latest UL testing standards for intrinsically safe equipment in explosive environments – where there is exposure to flammable gases; flammable or combustible liquid-produced vapors; combustible dusts or ignitable fibers; or flyings.

KEY FEATURES

- UL Certified intrinsically safe indicator for use in hazardous locations
- IP6X environmental protection
- Tare and Gross Net Function
- Data output via fiber optic to RS232 converter to safe area RS-232 printers or data collection software
- Two remote switch inputs
- Units of measure lb, kg, oz, g, or lb:oz
- 304 stainless steel construction



8AIS AC Power Supply



8BIS Battery Pack

UL CERTIFICATE NUMBER 20190304-E485121

8100IS

Intrinsically Safe indicator for use in hazardous locations

- Class I, Div 1, Groups A,B,C,D
- Class II, Div 1, Groups E,F,G
- Class III, Div. 1
- Zone 0, Group IIC
- Zone 20, Group IIIC



E485121

8BIS

Intrinsically Safe battery pack for use in hazardous locations

- Class I, Division 1, Groups A, B, C, and D
- Class II, Division 1, Groups E, F and G
- Class III, Div. 1
- Zone 0, Group IIC
- Zone 20, Group IIIC

8CHG

Safe area Battery Charger

Unclassified, non-hazardous locations only (Ord Loc)

8AIS

Intrinsically Safe AC Input Rating

- Class I, Div 1, Groups B,C,D
- Class II, Div 1, Groups E,F,G
- Class III, Div. 1
- Class I, Zone 1, Group IIC
- Zone 21, Group IIIC

Intrinsically Safe DC Output Rating

- Class I, Div. 1, Groups A, B, C, and D
- Class II, Div. 1, Groups E, F, and G
- Class III, Div. 1, Class I
- Zone 1, Group IIC
- Zone 21, Group IIIC

SPECIFICATIONS

AC Power Supply:	(8AIS AC Power Supply): 100VAC 50/60 Hz
Battery Power Supply:	(8BIS): 8 hours of continuous use with 36 hour charge. Requires 8CIS Battery Charger
Communications:	Two fiber optic ports standard
Optional Communication Interfaces:	Fiber Optic to RS232 converter safe area only
Resolution Range:	200 to 100,000d
Number of Load Cells:	Up to 4, 350 Ohm 4 Load Cell Entity Parameters: Uo 7.14 V, Io 0.7076 A, Po 0.895 W, Co 10.8 uF, Lo 71 uH
Controls:	Tare, Gross / Net, Zero, Print, Units
Digital I/O:	Two Remote Switch Inputs
Temperature Range:	14 F to 104F (-10 C to +40 C) 8CHG only: 14 F to 86 F (-10 C to +30 C)
Analog Sensitivity:	0.16 V/e minimum, 0.5 V/e typical
System Linearity:	0.01% full scale
Analog Signal Range:	-0.5mV/V to 5 mV/V with 4 and 6 wire input
Excitation Voltage:	5 VDC
Warranty:	Two years

