

# 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.

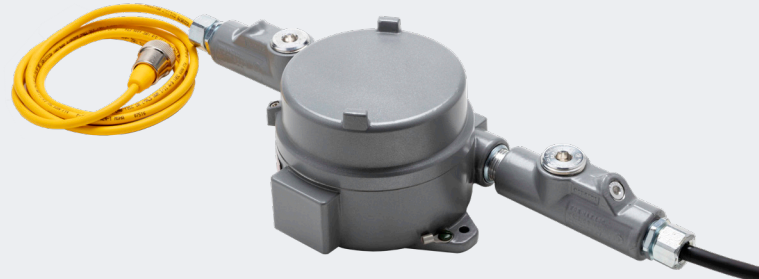


## Intrinsically Safe Indicator

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



#### 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

<b>Warranty:</b>	Two years
<b>Power Input:</b>	(8AIS AC Power Supply): 100VAC 50/60 Hz
<b>Optional Battery:</b>	(8BIS): 8 hours of continuous use with 36 hour charge. Requires 8CIS Battery Charger
<b>Optional Communication Interfaces:</b>	Fiber Optic to RS232 converter
<b>Resolution Range:</b>	200 to 100,000d
<b>Number of Load Cells:</b>	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
<b>Controls:</b>	Tare, Gross / Net, Zero, Print, Units
<b>Digital I/O:</b>	Two Remote Switch Inputs
<b>Temperature Range:</b>	14 F to 104F (-10 C to +40 C) 8CHG only: 14 F to 86 F (-10 C to +30 C)
<b>Analog Sensitivity:</b>	0.16 V/e minimum, 0.5 V/e typical
<b>System Linearity:</b>	0.01% full scale
<b>Analog Signal Range:</b>	-0.5mV/V to 5 mV/V with 4 and 6 wire input
<b>Excitation Voltage:</b>	5 VDC

