

155 INDICATOR



Indicator and peripherals
for explosion proof
applications.

Frequently Asked Questions

1. What are the FM approved approvals that the ZM155 has?

- › **ZM155 Indicator:**
Hazardous (Classified) Location
Class I, II, III, Division 1, Groups A, B, C, D, E, F, G
Class I, Zone 1, Groups IIA, IIB, IIC
Zone 21
- › **ZM155-PSU-H:**
Hazardous (Classified) Location
Class I, II, III, Division 1, Groups A, B, C, D, E, F, G
- › **ZM155-BAT:**
Hazardous (Classified) Location
Class I, II, III, Division 2, Groups A, B, C, D, F, G, T4
Class I, Zone 1, Group IIC
Class II, Zone 20

2. How many indicators can the PSU-H power?

The ZM155-PSU-H supports powering a single ZM155 Indicator.

3. Can any load cell connect to the ZM155 and be classified as FM approved?

Load cells used in the hazardous area must be FM approved or be listed on the ZM155 FM control drawing.

4. Does the ZM155 connect to an existing GSE or ZM301/303 indicator in the safe area?

The ZM155 will connect to a safe area with a ZM301/303. The ZM301/303 requires updated firmware and a configuration file that can be downloaded from the Avery Weigh-Tronix secure website along with installation instructions. The GSE350/355IS does not have the ability to connect to a ZM155.

5. I see there are Weigh Bar™ part numbers listed on the ZM155 control drawing, what if I want to use a Weigh Bar that is not listed?

Factory Mutual requires that each Weigh Bar that is on the ZM155 control drawing be tested to insure it will operate safely in the hazardous environment when connected to the ZM155. Avery Weigh-Tronix is continually adding additional Weigh Bars to the ZM155 control drawing. These are being added based on application and customer demand. The Hazardous Area Weigh Bar Application form can be filled out and sent to your Regional Sales Director to request a Weigh Bar to be added. This form can be found on the secure website.

6. Does the ZM155 Support fiber optic serial ports?

The ZM155 utilizes an intrinsically safe RS232 or RS485 connection to the safe area via the ZM155-COM barrier box. The ZM155's RS232 port can support up to 20 meters of cabling between the indicator and the ZM155-COM box. When using RS485, the ZM155 can support up to 1000 meters of cabling between the indicator and the ZM155-COM box. The ZM155-COM comes with 20 meters of cabling. Additional cabling is available on the ZM155 price sheet.

7. What is the max cable length supported between the ZM155 and ZM155-PSU-S Safe Area Power Supply?

The ZM155-PSU-S comes with a 20 meter cable prewired and has the 8 pin connector installed that will connect directly to the ZM155. An optional 30 meter extension cable can be purchased to extend the max cable length to 50 meters between the indicator and safe area power supply.

8. Can the ZM155-BAT be charged in the Hazardous Area?

No, the ZM155-BAT needs to be charged in the safe area.

9. How long does the ZM155-BAT battery last?

The ZM155-BAT will power a ZM155 Indicator and a single 350 Ohm Weigh Bar continuously for up to 60 hours. When continuously powering a ZM155 Indicator connected to a 4-350 Ohm Weigh Bars the ZM155-BAT lasts 50 hours.

10. What do the LED's on the ZM155-BAT charger mean?

- › A steady light from the LED means the ZM155-BAT is charging.
- › A slowly flashing LED mean charging is complete.
- › A rapidly flashing LED means the ZM155-BAT batteries are deeply discharged.
- › The ZM155-BAT charging time is typically 6 hours.

11. Is the ZM155 a direct replacement for the GSE 350IS?

Yes, The ZM155 can replace GSE350IS/355IS and WI-150 hazardous location installations. The application details, interfaces and safe area requirements will need to be understood to replace the existing system.

12. What other ZM products will work with the ZM155? (Specify safe / hazardous area)

The ZM155 will connect to a safe area:

- › ZM201 (requires special firmware)
- › ZM301/303 (requires special firmware and configuration file)
- › ZM401/405, ZM505/510, ZM605/615 (requires Ztools file)
- › ZK840 (requires Ztools file)

The special firmware and Ztools configuration files can be downloaded from the Avery Weigh-Tronix secure website.

13. Where is the best place to look for information on how the ZM155 system is to be installed in a Hazardous Area?

The ZM155 FM Control Drawing (P/N AWT35-501828) describes the installation and Hazardous Area specifications for the ZM155, ZM155 Power Supplies, and ZM155-COM Barrier Box. This drawing can be downloaded from the Avery Weigh-Tronix secure website.

14. Can you connect two ZM155 Indicators to support a dual indicator/single scale configuration (client/server)?

Yes, for both hazardous and safe areas, two ZM155's can be connected via RS232 or RS485 in a client/server configuration. This does, however, use COM1 on each ZM155 removing the possibility of using the ZM155-COM for safe area communication.

15. What AWTX platforms can be used with the ZM155?

The ZM155 FM control drawing (P/N AWT35-501828) contains a list of the FM approved Weigh Bars and Junction Boxes that can be used with the ZM155. This drawing can be downloaded from the Avery Weigh-Tronix secure website.

16. Does the ZM155 support any setpoints?

Setpoints are supported in the safe area with a ZM2/3/4/5/6 Indicator.

17. Does the ZM155 support analog output?

Analog output is supported in the safe area with a ZM3/4/5/6 Indicator.

18. How many Weigh Bars does the ZM155 support?

The ZM155 supports one to four 350 Ohm Weigh Bars identified on the ZM155 control drawing or FM approved load cells.

Avery Weigh-Tronix

www.averyweigh-tronix.com

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