

1. The ZM201 Series is comprised of four different products, what are they?

- › ZM201 with 1.2 in / 30 mm TN display and ABS enclosure
- › ZM201 with .5 in / 13 mm TN display and stainless steel enclosure
- › ZM201 with .5 in / 13 mm TN display and panel mount stainless steel enclosure
- › ZM201 with no display is a panel-mount Signal Processor with a stainless steel enclosure

2. What is a TN display?

The ZM201 indicators use a TN display which provides dark digits against a green background. This display is ideal for viewing in direct sunlight and also features a back light for viewing in dim environments.

3. Are the rounded enclosure corners and modern colored keys standard?

The design language consists of colorful easy-to-read keys as well as industry leading easy to clean rounded corners. This exclusive design is patented by Avery Weigh-Tronix via US Patent number 672,262.

4. The keys on the front panels have a crisp snapping response, is this normal?

Yes, the indicator's durable front panels are chemical resistant and the keys' tactile feedback is maintained by high quality steel spring domes.

5. What power source is required to operate these indicators?

The indicators can operate from a mains power of 90-264 VAC (110-240 VAC nominal), 50 or 60 Hz, 12 to 36 VDC. The optional internal rechargeable battery pack is also available for the ABS and stainless steel models.

- › ZM201 ABS model includes an In-Line power assembly
- › ZM201 Stainless Steel model has an internal PSU with an external plug
- › ZM201 Panel Mount and Signal Processor can connect to a DC panel source or add an optional In-Line module assembly for AC to DC input

6. How long will the optional internal battery pack power the scale?

A fully charged NiMH battery pack will provide eighteen hours of continuous operation on a single weight sensor system and fourteen hours of continuous operation on a four weight sensor system. Standby mode extends the battery performance.

Indicators for daily weighing tasks with powerful built-in applications.

Frequently Asked Questions

7. How long does it take to completely recharge the depleted rechargeable NiMH battery?

The maximum recharge time is five hours.

8. What is the charging duty cycle rating of the battery pack?

The NiMH Battery pack is rated for 300 charge/discharge cycles before the rated capacity drops to 60%.

9. How many 350 ohm weight sensors does the ZM201 support?

The ZM201 indicators support up to four 350 ohm weight sensors via six conductors or four and the utilization of the sense lead configuration.

10. Do the indicators have a built-in suite of operating applications?

Yes, through configuration the indicators can operate for:

- › **General Weighing** to accumulate, store, recall
- › **Checkweighing** with multi-segment status graph
- › **Parts Counting** to display amount of pieces on a weighing platform
- › **Peak Weighing** to capture the maximum weight value
- › **Batching** with an annunciator graph bar
- › **Remote Display** connected to host devices providing secondary access and read out

11. How do you configure the set up parameters for the indicators?

The indicators can be configured through a sequence of key presses on the front panel or through the use of the PC support software program Ztools.

12. Can communication output strings be changed?

The selected application suite includes a default print string and protocol, but these can be enhanced or modified through the front panel or by using Ztools. For ease of configuration we recommend the use of Ztools (PC software program).

13. What are the PC requirements for Ztools software?

Recommended:

- › CPU: Intel i5 or equivalent
- › RAM: 4GB
- › Hard Drive: 500GB
- › Display: >15.6 inch display, (1366 x 768)
- › OS: WinXP (32-bit), Windows 7 Home Premium (32/64-bit)
- › Communications: 10/100 Ethernet

14. What standard communication ports are included with the ZM201?

The ZM201 includes Ethernet and two programmable RS232 serial ports that support SMA protocol, broadcast and enquire.

15. Which communication port is used for downloading the Ztools configuration to the indicator?

The indicators include an Ethernet communication port which is used for connecting to the PC and communicating Ztools configurations.

16. What other applications would use the Ethernet port??

The Ethernet port supports:

- › Basic directly connected printers
- › Enquire mode for simple key control
- › SMA for basic indicator control and status byte transmission

17. What printers and interface technologies have been tested with the ZM201 Series?

- › AWTX ZC110 Impact Printer (serial)
- › AWTX ZG310 Thermal Printer (serial)
- › HP A799 (USB, serial)
- › LP2824 / LP2844
- › Epson TM-U220b (serial)
- › Epson TM-T88V M244A (serial)
- › LP-250 / LP-470
- › Brecknell DT 2205 (serial)

18. Is there a relay control option for the setpoint outputs?

The optional ZM-OPTO assembly provides a solution to activate devices for setpoints and for inputs.

19. Are additional options available for the ZM201 Series?

- › ZM201 Stainless Steel and ABS models support an optional internal battery pack and recharging circuitry

- › Pole mounting kit for the ZM201 ABS model
- › ZM-OPTO assembly for relay management
- › Ethernet watertight gland
- › In-Line AC to DC power module
- › External agency sealing kits
- › Ztools PC utility program

20. Is the ZM201 Series approved legal for trade?

- › NTEP (US) Class III/IIIL 10,000 d (CC# 13-017)
- › Measurement Canada AM-5902C[†]
- › OIML (European and UK) Class III 6,000 d
- › Australia (NMI)*
- › EC
- › South Africa*
- › New Zealand*
- › India*

* pending [†]Signal Processor not approved by Measurement Canada

21. The previous indicator range used levered connectors or adapters for interface cables; does this product have a better solution?

Improving accessibility for connecting cables was a common design request from customers. The stainless steel enclosed products use a two part detachable solution allowing for connections to be made outside the confined space and then plug this assembly into its socket and the ABS enclosed product provides even more convenience with its open access to these connectors.

22. The ZM201 Signal Processor model has no display, how do I use this product?

The ZM201 Signal Processor has a preconfigured data stream via Ethernet using Modbus/TCP. Through the host device you can calibrate, change units of measure and apply a Tare value, plus more, please reference the Service Manual.

The ZM201 Signal Processor serial port supports SMA protocol, which includes Level 1 commands, calibration and basic configuration functions.

More online

- › Technical specifications
- › User manuals
- › News and information

www.averyweigh-tronix.com/zm201



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