

Thermo Scientific Oretronic IV Tramp Metal Detector Frequently Asked Questions

Questions and answers relating to the Oretronic IV Tramp Metal Detector

Q-1 What configurations are available in the Oretronic IV TMD control?

Oretronic IV-4ST: 4 Amp, standard NEMA-4X fiberglass enclosure

Oretronic IV-6ST: 6 Amp, NEMA-4 painted mild steel metal enclosure

Oretronic IV-6LT-115: 6 Amp, NEMA-4 painted mild steel metal enclosure, 115 volt with heater

Oretronic IV-6LT-230: 6 Amp, NEMA-4 painted mild steel metal enclosure, 230 volt with heater

Communication card RS-485 option for use in any of the above models

Q-2 What are the low temperature ratings for non-heated and heated versions?

Temperature Ratings for the non heated units are -40 to +58 °C.

Temperature Ratings for the heated units are -50 to +58 °C (heater required and only in metal enclosure).

Q-3 How far from the coils can I mount the Oretronic IV TMD control unit?

Transmitter coil comes with 15 ft of cable and receiver coil comes with 10 ft of cable. Optional junction box is available to increase distance by 50 feet.

Q-4 Is the Oretronic IV TMD control a direct replacement for the Oretronic III TMD control? Will it work with existing coils?

Oretronic IV control is a direct replacement for the Oretronic III control and will work with existing Thermo Fisher Scientific transmitter, receiver and under belt coils.

Q-5 What options are available for the TMD IV system?

Alarm Horn, clip detector, flag drop marker, rotating beacon, high pile detector, RS-485 communication card, and 115 VAC or 230 VAC heater (only for use with metal enclosure).

Q-6 What is the difference between the Oretronic IV-4 Control and Oretronic IV-6 Control?

The Oretronic IV-6 control offers higher power and therefore higher sensitivity to tramp metal detection.

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Q-7 Do the new Oretronic IV controls have the same mounting footprint as the previous Oretronic III control?

No, the mounting footprint for the Oretronic IV versions is not the same as the Oretronic III control. Please refer to the manual for dimensions and mounting requirements.

Q-8 What is the detectable tramp size with the Oretronic IV Tramp Metal Detector system?

Detectable tramp size depends on several variables including material, burden depth, belt width, belt speed and coil gap. Please see the sensitivity statement or contact our facility to help determine detectable tramp size based on a specific application.

Q-9 Is the Oretronic IV TMD designed for applications in hazardous areas?

The complete system is not designed for applications in hazardous areas. We can provide coils and some accessories suitable for Class II, Division 1 and 2 areas but the Oretronic IV Control must be located outside of the hazardous area. A hazardous area rated junction box can be used to increase the distance the control can be mounted from the coils.

Q-10 Is there a stainless steel control enclosure option?

At this time there is not a stainless steel control option. Please contact the factory if you have an application which requires a stainless steel enclosure.

Q-11 Is calibration process/menu the same?

The user interface and calibration menus have changed but the concept of fine and coarse sensitivity remains the same.

Q-12 Are there special tools required to install an Oretronic IV Tramp Metal Detector system?

There are no special tools required.

Q-13 Why is the Oretronic IV TMD better than the Oretronic III TMD?

Improved sensitivity, fewer false trips, better user interface and multi language software.

Q-14 Can I connect more than one receiver coil to the control?

No.

Q-15 Is the Oretronic IV TMD system more immune to false trips than the Oretronic III TMD system?

Yes, due to factory and field testing we have proven that the Oretronic IV is less affected by metal near the system and electrical interference by magnets, motors and other equipment in the area, minimizing the occurrence of false trips.

Q-16 Can the control be reset remotely when tramp is detected?

No, if tramp is detected the user needs to check the belt and remove tramp prior to restarting the system.

Q-17 What approvals does the Oretronic IV Control have?

At release the Oretronic IV controls have CE and cCSAus approvals. If there are other approvals that are required, please contact the factory.

Q-18 Software languages available on Oretronic IV TMD Control?

English, Spanish (Latin Am), German, Chinese (Mandarin/Simplified), Italian and French. Please contact the factory for other languages.

Q-19 Manual languages for Oretronic IV TMD Control?

English, Spanish (Latin Am), German, Chinese (Mandarin/Simplified), Italian and French. Please contact the factory for other languages.

Q-20 What gauge wire is used with Oretronic IV Control?

Refer to the instruction manual for all wiring information.

Q-21 Will the controller be adversely affected if mounted in direct sunlight?

A controller mounted in direct sunlight may experience darkening of the display with limited visibility it is not recommended to mount the control in an area where it will be subject to high heat or direct light. To avoid exposure to direct sunlight a sun shield should be installed.