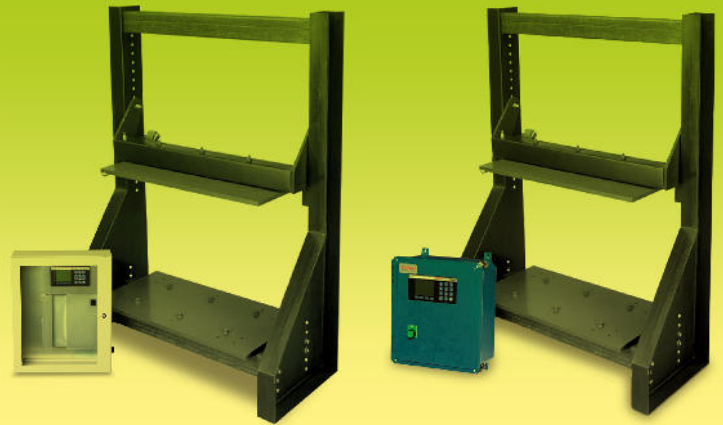


## Tramp Metal Detector Thermo Ramsey Oretronic IV

for all metals



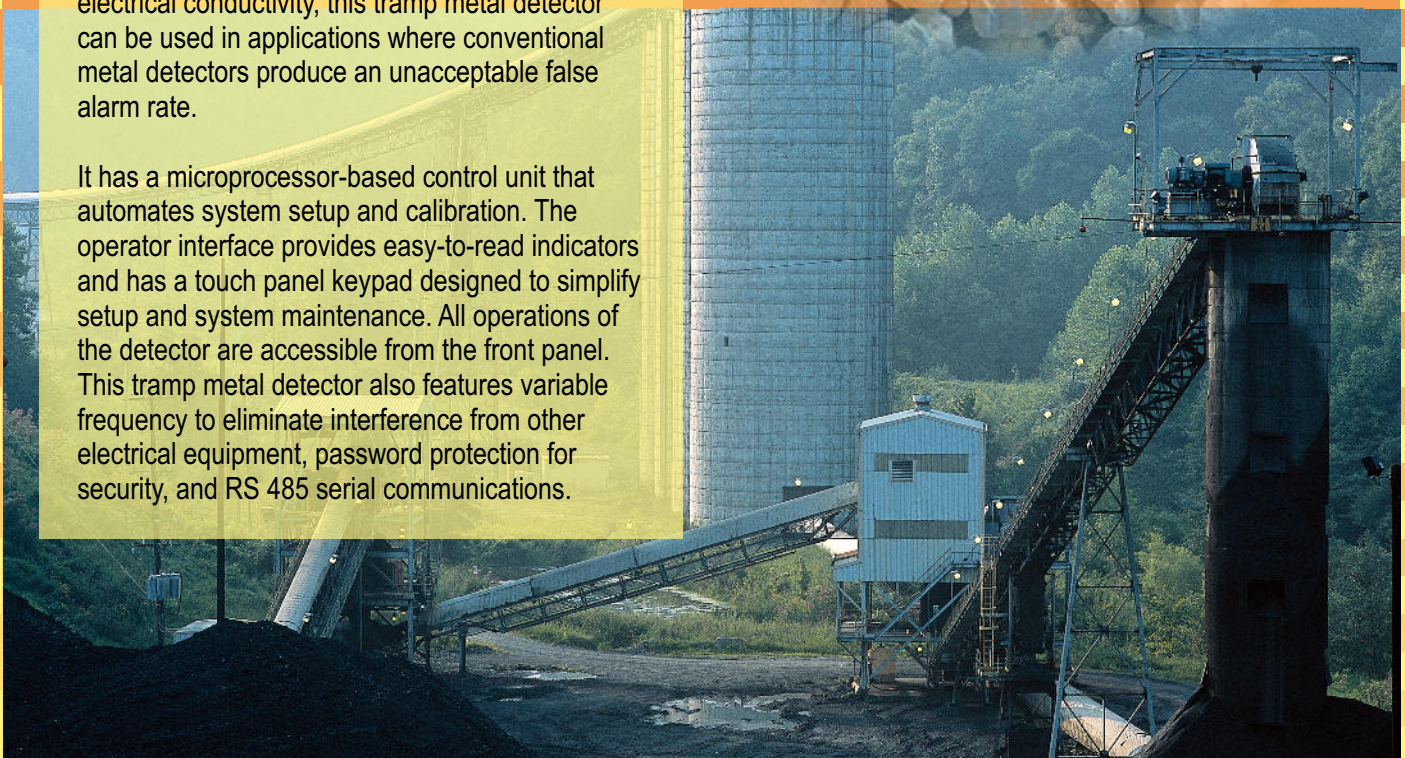
### Reliable Protection of your Equipment

Tramp metal can stop your operation, and the damage it causes to equipment can be expensive. The Ramsey Oretronic IV tramp metal detector provides an economical and reliable means to protect expensive crushers, conveyors and other process equipment from damage by tramp metal. The Ramsey Oretronic IV tramp metal detector is designed especially for belt conveyors moving coal, iron pellets, minerals, aggregates and other bulk materials. It can detect all types of metallic scrap, including bucket teeth, manganese steel mantles, bore crowns, bar scrap, chains and tools. It can even detect tramp metal when buried in wet conductive materials. And, because it is insensitive to materials with high magnetic permeability and electrical conductivity, this tramp metal detector can be used in applications where conventional metal detectors produce an unacceptable false alarm rate.

It has a microprocessor-based control unit that automates system setup and calibration. The operator interface provides easy-to-read indicators and has a touch panel keypad designed to simplify setup and system maintenance. All operations of the detector are accessible from the front panel. This tramp metal detector also features variable frequency to eliminate interference from other electrical equipment, password protection for security, and RS 485 serial communications.

### Installation

The system's coils are made of impact-resistant polyvinyl chloride and designed to withstand stresses of up to ten times the force of gravity. The generator coil and dual-wound receiver coils mount on a support made of non-conductive materials. The field generator coil is swing-mounted to protect the coil and support from being struck from oversized materials. A dual receiver coil is employed to counteract interference from external sources, such as electric motors, lightning and radio transmitters.

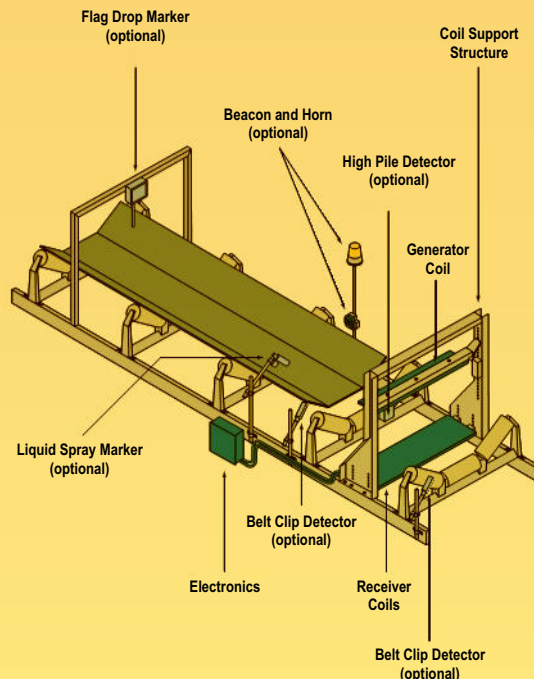


## Technical Specifications

Belt Speed:	0.025 m/s ... 9.1 m/s (1.5 m/min ... 550 m/min)
Power:	98 ... 253 V AC (Oretronic IV-4) or 115 ... 230 V AC (Oretronic IV-6) VAC (-15% ... +10%), 50 .. 60 Hz, single phase, 0.9 A (Oretronic IV-4) or 2.8 A (Oretronic IV-6)
Display:	77 mm x 58 mm viewable LCD graphic display for easy reading, continuous backlit for ease of viewing indoors and outdoors
Alarm Outputs:	3 relais outputs (NO and NC), 5 A at 250 V AC (alarm Indicator, alarm, marker output) 2 relais outputs (NO), 5 A at 250 V AC (bypass, power OK)
Operating Temperature:	-40 °C ... +58 °C (-40 °F ... +136 °F)
Storage Temperature:	-30 °C ... +75 °C (-22 °F ... +158 °F)
Humidity:	10 ... 95%, non-condensing
Control Unit Enclosure:	Oretronic IV-4: reinforced fiberglass, IP 66 / NEMA 4X, 432 x 360 x 184 mm Oretronic IV-6: painted mild steel, IP 66 / NEMA 4, 687 x 524 x 230 mm
Serial Interface:	Optional RS-485
Coils:	Sealed in PVC
Coils Frame:	FRP reinforced support assembly
Certificates:	CE, RoHS



## System Construction



EmWeA Prozessmesstechnik e.K.  
Am Hagen 3  
99735 Guenzerode  
Germany

Phone: +49 36335 3800-0  
Telefax: +49 36335 3800-10  
info@emwea.de  
www.emwea.de

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