

## Intelligent Measurement and Control Systems

Protective Current and Hot Water Control

**S-Patron®** combines cathodic corrosion protection with important building-services functions. It controls modern systems for heat recovery and solar thermal energy.

Four types are available - C100, C200, C300 and C300HR. They have up to four sensor inputs and three relay outputs. The protective current for the water tank is fed in through mixed-oxide coated titanium anodes.

### Range of Application

- Integrated impressed current function
- Energy efficient anti-legionella function
- Auxiliary-heating control
- Thermostat control
- Water circulation control
- Solar control
- Direct connection to electrical heating elements of up to 3 kW possible

**S-PATRON®**



## Integrated Functions for OEM Applications

PCB-based Potentiostat

**Q-Guard®** offers tailor-made solutions for industrial series production. They are individually tailored to each tank and each application.



Integrated circuits for cathodic corrosion protection communicate via interfaces with the building-services functions of modern water storage systems. The function fields are tailored to each other to achieve high throughput rates in OEM production.

- **B-Type:** Independent control system for corrosion protection, signal transfer to the OEM electronics
- **C-Type:** Integrable stand-alone solution with external operation display
- **D-Type:** High-end, multi-channel device, communication interface to OEM electronics

For glass-lined tanks: **BEV, CEV, DEV**  
For stainless steel tanks: **BSV, CSV, DSV**

**Q GUARD®**



HyTonic® CORREX® CorroScout® S-PATRON® QGUARD®

## Innovations for Cathodic Corrosion Protection

Magontec is a leading global specialist in cathodic protection solutions.

Our product range is divided into five brand families. Major companies in the domestic appliance industry on several continents have been relying on our solutions for decades.

### Adding Value Through Service

Our program is a response to the complex technologies of our customers. Their individual requirements correspond to a large number of product variants.

Magontec has extensive facilities for conducting customer-tailored application testing to find solutions for the future.

Under real-life conditions, a fully equipped test facility with a laboratory and engineering services for mechanical and electrical engineering and electronics is available.

### Comprehensive Fields of Application

In addition to the central applications in the areas of sanitary and heating, our solutions are in demand in many other fields. These include building-services engineering and hotels, the food and beverage industry, industrial water processing and many others.

Our proven range of products and services makes us the preferred partner for OEMs and retrofits in a global marketplace.

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## Branded Solutions for Cathodic Corrosion Protection

### Product Overview and Services



**Go beyond.**

HyTonic® CORREX® CorroScout® S-PATRON® QGUARD®



# Cast Protection that Works

HyTonic® Cast Rod Anodes

HyTonic® anodes for hot-water storage tanks are based on the AZ 63 and AZ 31 alloys. They meet the highest hygiene and quality standards. The Magontec standard increases the strict limits of EN 12438 for Fe and Ni by more than 50%. We can supply over 1,500 product variants!

HyTonic®

## HyTonic® CMag Cast Rod Anodes with Thread Bolt

- Thread bolt M6 or M8
- Thread bolt length 6.5 to 230 mm
- Anode Ø 16 to 40 mm
- Length up to 1,500 mm

The anode has an isolated fitting to the heating element or the holder in the tank.

Illustration M6 x 230 (a) | M8 x 10 (b) | M6 x 10 (c)

## HyTonic® CMag Cast Rod Anodes with Thread Bolt and Sealing Disc

- Thread bolt M8 x 13,5 | M8 x 15 | M8 x 18 | M8 x 23 | M8 x 25 | M8 x 30
- Anode Ø 22 to 40 mm
- Length up to 1,500 mm

The anode has an isolated fitting to the flange.

## HyTonic® CMag Cast Rod Anodes with Thread HyTonic® ExMag Extruded Rod Anodes with Thread

- Screw: Steel black
- **Fitting type: Welded**
- Thread sizes: G 3/4" | G 1" | G 1 1/4" | G 1 1/2"
- Anode Ø 22 to 40 mm
- Length up to 1,500 mm
- Seal type: Self-sealing thread

With PTFE sealing ring for easy fitting. The anode is fitted into a threaded fitting. A 30° chamfer is required.

## HyTonic® CMag Cast Rod Anodes with Thread

- Screw: Steel galvanized
  - **Fitting type: Isolated**
  - Thread sizes: G 3/4" | G 1" | G 1 1/4" | G 1 1/2"
  - Anode Ø 22 to 40 mm
  - Length up to 1,500 mm
  - Seal type: Self-sealing thread
  - Various earth connections and cable lengths available
- With PTFE sealing ring for easy fitting. The anode is fitted into a threaded fitting.

## HyTonic® CMag Cast Rod Anodes with Thread

- Screw: Steel galvanized
- **Fitting type: Screw-in**
- Thread sizes: G 3/4" | G 1" | G 1 1/4" | G 1 1/2"
- Anode Ø 22 to 40 mm
- Length up to 1,500 mm
- Seal type: Bolt head seal

The anode is fitted into a threaded fitting.

## HyTonic® Extruded Rod Anodes with NPT Thread

- Screw: Steel black
- **Fitting type: Welded**
- Thread size: 3/4" NPT
- Anode Ø 21 mm
- Length up to 2,000 mm
- Seal type: Self-sealing thread

The anode is fitted into a threaded fitting.

## HyTonic® CMag Cast Rod Anodes with NPT Thread

- Screw: Steel galvanized
- **Fitting type: Isolated**
- Thread sizes: 3/4" NPT
- Anode Ø 22 mm
- Length up to 1,000 mm
- Seal type: Self-sealing thread

Optional Loctite® thread sealant for easy fitting. The anode is fitted into a threaded fitting.

## HyTonic® CMag Chain Anodes with Thread

- Screw: Steel black or galvanized
  - **Fitting type: Welded or isolated**
  - Thread sizes: G 3/4" | G 1" | G 1 1/4" | NPT 3/4"
  - Anode Ø 22 mm and 33 mm
  - Seal Type: Bolt head or self-sealing thread
- With PTFE sealing ring for easy fitting. Optimum protection properties for use in tight spaces. The anode is fitted into a threaded fitting.

## Reduction Pieces

G 1" x 3/4" PTFE (a) | G 1 1/2" x 3/4" (b)

## HyTonic® ExMag Extruded Rod Anode with water drain nipple NPT 3/4", AOD

- Anode Ø 21 mm
- Length up to 2,000 mm
- Optional chain anode available

# Electronically Regulated, Long-Term Reliability

Correx® Impressed Current Anode Systems

Correx® is the champion of the impressed current anode systems. Correx® systems consist of electronically controlled potentiostats and mixed-oxide coated titanium anodes.

CORREX®

## Correx® MP for hot water storage tanks in lower to medium power ranges.

Correx® MP 2.3 for glass-lined tanks of up to 300 l (80 gal).

Correx® MP 1.9 for stainless steel tanks of up to 200 l (50 gal).

## Correx® UP for hot water storage tanks in higher power ranges.

Correx® UP 2.3 for glass-lined tanks of up to 5,000 l (1,300 gal).

Correx® UP 1.9 for stainless steel tanks of up to 5,000 l (1,300 gal).

The protective current is fed through mixed-oxide coated titanium anodes. Anode lengths: 200 mm | 400 mm | 800 mm | 1,200 mm.

# Quick, Easy and Precise Measurements

CorroScout® 700 Anode Tester

CorroScout® 700 is the professional anode tester with a wide range of measurement functions:

- Anode drive potential | max. 20 V DC
- Mains voltage checking | 120 V AC – 400 V AC
- Electrical resistance test | max. 20 MΩ
- Electrical heating element insulation test | max. 2,000 Ω
- Diode function
- Protective current output | max. 200 mA DC e.g. for isolated mounted electric heating elements
- Temperature measurement | -20°C to +200°C
- Touchless voltage test "NCV" | 230 V AC

CorroScout®

