



- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Explosion-proof types IIB+H₂

■ Catalogue number logic

HR-CPTR - □ / □ / □ / □

Rated output current (A)

Rated output voltage (V)

Rated input voltage (V)

Specification code

I: The number of output circuit: 1

II: The number of output circuit: 2

III: The number of output circuit: 3

IV: The number of output circuit: 4

Explosion-proof cathodic protection transformer / rectifier unit



■ Product features

- ◆ The shell of this product is welded with carbon steel or stainless steel plates, and the product is mainly composed of an explosion-proof enclosure system, a transformer, rectifier module, a control and feedback module, a protection and monitoring module, an auxiliary and communication module, etc.
- ◆ It is capable of converting industrial, frequency alternating current into stable direct current through voltage transformation, rectification, filtering and closed-loop control. Meanwhile, it is adapted to hazardous environments via its explosion-proof structure, ensuring that the protected metal structures (such as pipelines and storage tanks) achieve stable cathodic polarization to inhibit corrosion.

Zones 1&2; 21&22

Engineering Cabins

HR-CPTR Explosion-proof Cathodic Protection Transformer / Rectifier Unit

Technical data

Explosion-proof Cathodic Protection Transformer / Rectifier Unit HR-CPTR-□/□/□/□

Explosion protection

Global (IECEX)	IECEX (applied for)
Gas and dust	Ex db ob IIB+H ₂ T4 Gb Ex tb IIIC T130°C Db
Europe (ATEX)	ATEX (applied for)
Gas and dust	⊕ II 2 G Ex db ob IIB+H ₂ T4 Gb ⊕ II 2 D Ex tb IIIC T130°C Db

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-6, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-6, IEC 60079-31

Ambient temperature

-60°C~+60°C

Enclosure material

Carbon steel, powder coated surface, window grey (RAL7040) or Stainless steel

Exposed fastener

Stainless steel

Degree of protection

IP66

Rated input voltage

Single phase 115V~240V AC 50/60Hz
Three phases Max. 480V AC 50/60Hz

Rated output voltage

Output voltage for each circuit Max. 50V DC

Rated output current

Output current for each circuit Max. 50A

Rated output power

Output power for each circuit Max. 2500W

Cable entries

Standard M□×1.5 plug (the size of entry hole should be processed in accordance with actual requirements), NPT □ plug on request.

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39.

Entry direction

Bottom

Mounting

Pedestal type

Dimension drawings (all dimensions in mm) - subject to alteration

