

INTERNATIONAL CORROSION CONTROL INC.

INTERPROVINCIAL CORROSION CONTROL COMPANY LTD.

Leaders in the Cathodic Protection Industry ... since 1957

ICCC



PRODUCT INFORMATION: DC-Decoupler™

Product:	Rustrol® DC-Decoupler™ Model: DCD			
End User:	 Oil and Gas Transmission Pipelines Refinery and Petrochemical Industries Electrical Utilities Tank Farm/Oil Depot Facilities 			
Background:	The Rustrol [®] DC-Decoupler™ Model: DCD is an enhanced development to the Rustrol [®] Product Line. The DC-Decoupler™'s unique features are based on the proven Rustrol [®] technology utilizing solid-state design and superior test proven, quality components throughout the construction. The DC-Decoupler™ Model: DCD is typically utilized within applications of light/moderate <i>(ie. non-continuous)</i> exposure of AC mitigation. The standard DCD Product Line provides an economical engineered solution in a compact, lightweight, ready to mount assembly.			
Applications:	The Rustrol [®] DC-Decoupler™ Model: DCD device is designed to protect personnel and equipment from electrical disturbances. The DC-Decoupler™ device blocks DC current associated with cathodically protected structures, <i>(ie. Pipelines, On-Grade or Buried Storage Tanks, etc.)</i> and provides an effective and continuous conductive path to the Utilities Grounding/Earthing Network for all other forms of Electrical Exposures, such as:			
	 Lightning/Surge Currents AC Fault Currents AC Induced Voltages Over-Voltage Protection 			
	The Rustrol [®] DC-Decoupler™ Model: DCD is capable of reducing the potential difference across Isolating Flange Assemblies and/or Monolithic Isolating Joints to well below the industry accepted criteria (<i>ie.</i> <10 volts AC rms).			
	The Rustrol [®] DC-Decoupler™ Model: DCD is versatile and can be used in numerous applications, including coupling the primary structure <i>(ie. pipes, valves, pumps, etc.)</i> in series through the DC-Decoupler™ to Gradient Control Systems.			
	Typical Applications include:			
	 Pipeline AC Mitigation/AC Discharger Isolating Joint Protection Decoupling from the Gradient Control Systems 			
Advantages:	 Product Certification—ATEX/IECEx, QPS, KCS Rustrol®, an Industry Leader for Safe DC Isolation. Fail-Safe Design; Grounding Criteria Assured Compact; Ready to Mount Design Maintenance-Free Performance Eliminate "Step & Touch" Potential Risk Maintains coating Stress Voltages within Acceptable Limits No additional Mounting Accessories required for Installation No Structure Compromise Required for Installation (<i>ie. Flange Drilling</i>) 			

Rustrol[®] **DC-Decoupler**[™] Model: **DCD**, Operating Characteristics

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	Rustrol [®] DC-Decoupler [™]	Rustrol [®] DC-Decoupler [™]	Rustrol [®] DC-Decoupler [™]	Rustrol [®] DC-Decoupler [™]		
	Model: DCD-02.5	Model: DCD-06.3	Model: DCD-07.0	Model: DCD-10.0		
AC Fault Current Ratings	rms 50 Hz 60 Hz 1 cycle 2.3 kA 2.5 kA 3 cycles 1.7 1.8 10 cycles 1.5 1.6 30 cycles 1.3 1.4	rms 50 Hz 60 Hz 1 cycle 5.8 kA 6.3 kA 3 cycles 5.0 5.4 10 cycles 4.1 4.4 30 cycles 2.2 2.4	rms 50 Hz 60 Hz 1 cycle 6.5 kA 7.0 kA 3 cycles 5.0 5.4 10 cycles 4.2 4.5 30 cycles 3.7 4.0	rms 50 Hz 60 Hz 1 cycle 9.2 kA 10 kA 3 cycles 8.0 8.7 10 cycles 5.7 6.2 30 cycles 5.0 5.4		
DC Leakage Current	≤ 7.5 mA	≤ 7.5 mA	≤ 7.5 mA	≤ 7.5 mA		
Fail-Safe Design	Yes	Yes	Yes	Yes		
Connection Terminals	Standard - Flange Mount Assembly (<i>FMA</i>) Distinctive Design: Compact, Lightweight Ready to Install Optional - Optional Terminal (<i>OT</i>), Dual Terminal Post (<i>DT</i>) Bottom Side of Enclosure, Internal Terminal (<i>IT</i>)					
Certifications	ATEX and IECEx KCSII 3D Ex nA IIC T6 Gc (-20°C \leq Ta \leq +50°C)II 3D Ex tc IIIB T60°C Dc (-20°C \leq Ta \leq +50°C)					
	CE Mark QPS	Class I, Div. 2, Groups A, B, C and E Class I, Zone 2, AEx nA, IIC T6 Gc Ex nA IIC T6 Gc $-20^{\circ}C \le Ta \le +50^{\circ}C$	0, T6 Class I Zone 2 Ex tc I	I, Div. 2, Group G, T60°C 2 AEx tc IIIB T60°C Dc IIB T60°C Dc		



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