



## Features

- Data and network protection
- Direct connection to communication lines
- 10kA surge handling capability
- Low "let through" voltage
- DIN rail mounting for modular installation
- Fast response time

## Benefits

- DIN rail earthing and earth stud
- Two part push-in screw terminal connectors
- Screw holes for panel mounting
- Negligible effect on normal line operation
- Simple installation or replacement
- Protection of expensive power assets

## Applications

- Computer networks and signal line protection
- PC based communication systems
- SCADA systems
- PLC interfacing
- Energy management systems
- Process control
- Data acquisition

## Compliant With

BS6651:1999 Annex C Category C

Many of the models within the Integra product portfolio feature an integral RS485 communication port, allowing direct connection to SCADA systems via Modbus RTU or Johnson Controls Metasys NII protocols. The DBP data barrier surge protector is designed for protection of RS485 lines against the damaging effects of transient over voltages caused by lightning, AC power systems and other electrically "noisy" sources.

Computer and data network systems using twisted pair copper cabling are subject to electrical interference pick-up from surges. The incorporation of DBP surge protection barriers into a digital metering system schematic will protect against losses from corrupted data, software, and equipment failure.

## Operation

The DBP features a 10kA surge handling capability, which under normal conditions will automatically reset after clamping smaller, more frequently occurring surges. In the unlikely event of a surge being large enough to cause failure of the DBP, the integral suppressor will fail to short-circuit and the protected line will automatically shut down. Operation is restored when the suppressor is replaced or removed.

DBP units are connected in-line, and are hardwired with 2 part screw terminal connectors for simple installation and replacement. The incoming line should be connected to the "Unprotected" side of the DBP, and the Integra should be connected to the "Protected" side of the DBP.

DBP units should be located as close as possible to the Integra, and, to the remote PC. Alternatively, for schemes which incorporate numerous Integras, multi line stackable units can be used in a central location for ease of installation and maintenance.

## Specification

Nominal Input Voltage:	6.0 Volts
Operating Voltage:	7.5 Volts maximum
Let Through Voltage:	11 Volts when 5KV (10/700µs) @ 125A surge waveform applied
Nominal Input Current:	1.25 Amps
Max Surge Current (8/20µs):	10kA
Line Resistance:	1.0Ω
Response Time:	<10ns
Enclosure:	Flame retardant, light grey ABS
Connectors:	2 wire screw terminals
Fixing:	DIN rail mount or 5mm x 2 screw holes for panel mounting
Compliant With:	BS6651:1999 Annex C – Location Category C
Operating Temperature:	-25° to +70°C
IP Rating:	Standard: IP20 Separate Enclosure Option: IP65
Dimensions:	100mm wide x 50mm high x 23mm deep
Weight:	90 g

## Product Code

<b>DBP/2/06</b>	RS485 ST barrier, 10kA, 2 wire, 6 volt
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## Connections

