



- DASD: Advanced Solid-State Decoupler
- Protection in case of transient, temporary and long-duration overvoltages
- High discharge capacity
- Fail-safe failure mode
- Integrated test socket
- For outdoor use

The **DASD 45 LP 100 T** is a capacitive decoupler and limits long-duration, temporary and transient overvoltages. With the exception of DC currents, the DASD can discharge all external voltages that occur, limiting them without adversely affecting the DC potential (cathodic protection potential). It limits the effect of dangerously high surges in the immediate vicinity of the application to a harmless, acceptable level in terms of safety.

Functional description

The following surge-related effects can be controlled by the coordinated and tested interaction of the functional units of the DASD:

Undefined lightning-related puncture and flashover at insulating clearances

Surges caused by lightning events are limited and the lightning currents occurring in this connection discharged to local earth.

Dangerous touch voltages at accessible points

Dangerous touch voltages are limited to below the maximum permissible touch voltage for the duration of their occurrence.

Reduction of alternating current corrosion due to AC influence

Technical alternating currents from 16.7 Hz to 60 Hz can be permanently discharged against low-resistance earth electrodes without influencing the cathodic protection potential on pipelines.

Monitoring / controlling

The integrated test socket allows the device to be checked on site.

Field and scope of application

Especially pipelines affected by lightning, electric railways or high voltage lines are the possible fields of application of the DASD 45 LP 100 T.

Typical applications are remote insulated pipeline sections, cathodically protected containers / storage tanks or open earthing of cable shields at accessible locations. The DASD 45 LP 100 T has a fail-safe failure mode, which means that in case of overload the DASD goes into a short circuit and thus creates a safe state for people and systems.



PIPELINE ACCESSORIES
Decoupling device DASD

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German Cathodic Protection



Available everywhere

DASD is independent of an external power supply. The delimitation unit can therefore be used anywhere - especially in those locations that, depending on the situation, have a particularly high risk of external voltages, changes in potential or stray currents.

- 1 IP68 housing - waterproof and dustproof, for outdoor installation
- 2 Integrated test socket - for simple functional testing of the decoupling device
- 3 High discharge capacity - transient 100 kA, temporary 3.7 kA, stationary 45 A
- 4 Clear identification - no mistake of pipeline and earth connection
- 5 Fail-safe failure behavior - safe state in the event of overload

Type	DASD 45 LP 100T
Part No.	GCP 204 329
Transient discharge current (10/350 μ s)	75 kA
Transient discharge current (8/20 μ s)	100 kA
Temporary discharge current (16.7 Hz, 50 Hz, 60 Hz)	5.0 kArms (up to 40 ms)
Temporary discharge current (16.7 Hz, 50 Hz, 60 Hz)	3.7 kArms (up to 200 ms)
Temporary discharge current (16.7 Hz, 50 Hz, 60 Hz)	2.0 kArms (up to 600 ms)
Long-duration discharge current (16.7 Hz, 50 Hz, 60 Hz)	45 Arms
Transient limiting voltage (up to 1 ms)	≤ 1.35 kV
Temporary limiting voltage (a.c.rms) (1 ... 600 ms)	≤ 20 V
Long-duration limiting voltage (> 600 ms)	≤ 3 V
Frequency range (a.c.)	50 / 60 Hz
Max. permissible voltage (d.c.)	- 2 V / + 1 V
Max. leakage current (20 °C)	< 20 μ A
Terminal (pipe / earth electrode)	M10 (stainless steel)
Operating temperature range (TU)	-45 °C ... +65 °C
Enclosure material	PVC-U
Degree of protection	IP 68
Diagnostic socket	four-pole with protective cap
Weight	3,59 kg
GTIN	4013364442269
PU	1 pc(s)