



Work on e-vehicles with high-voltage components requires special protective measures for personnel. In order to be able to carry out maintenance work and safety-relevant tests on high-voltage systems, various HV measuring adapters have been developed.

Every HV measuring adapter consists of a HV measuring box and a connector specific HV adapter cable set.

Available measuring box types:

- Universal HV measuring box with personal protection resistors
- Universal HV measuring box without personal protection resistors
- Universal HV measuring box with simulation ISO fault

article no. 100000733634 article no. 100000733636 article no. 100000733642



Article no. 100000733634

Universal HV measuring box <u>with</u> personal protection resistors

- Applications:
 - Determining / measuring the voltage-free condition in a HV system
 - Measuring the voltage in an activated HV system
 - Checking / measuring the insulation resistance in a HV system
 - Checking / measuring HV interlock or pilot line in a HV system
 - Continuity test, e. g. shield via HV components on body ground
 - Resistance measurement in HV system / on HV components
 - Simulation of insulation faults in a HV system
 - Opening / bridging HV interlock or pilot line, also partially possible on the individual adapters
- Measurement sockets:
 - HV+ und HV- with personal protection resistors
 - Shield
 - Pilot In (HV interlock)
 - Pilot Out (HV interlock male)
 - Pilot Out (HV interlock female)
 - Quick change interface X1 and X2 ODU Medi Snap for adapter cable set
- Personal protection resistors
- Measuring voltage max. 1000 V
- Measuring current max. 16 A
- Switch for simulation of insulation faults



Article no. 100000733636

Universal HV measuring box <u>without</u> personal protection resistors

- Applications:
 - Determining / measuring the voltage-free condition in a HV system
 - Measuring the voltage in an activated HV system
 - Checking / measuring the insulation resistance in a HV system
 - Checking / measuring HV interlock or pilot line in a HV system
 - Continuity test, e. g. shield via HV components on body ground
 - Resistance measurement in HV system / on HV components
 - Opening / bridging HV interlock or pilot line, also partially possible on the individual adapters
- Measurement sockets:
 - HV+ und HV- without personal protection resistors, the measuring sockets are protected by overcurrent protection device 1 A
 - Shield
 - Pilot In (HV interlock)
 - Pilot Out (HV interlock male)
 - Pilot Out (HV interlock female)
 - Quick change interface X1 and X2 ODU Medi Snap for adapter cable set
- Measuring voltage max. 1000 V
- Measuring current max. 16 A



Article no. 100000733642 Universal HV measuring box with simulation ISO fault

- Applications:
 - Determining / measuring the voltage-free condition in a HV system
 - Measuring the voltage in an activated HV system
 - Checking / measuring the insulation resistance in a HV system
 - Checking / measuring HV interlock or pilot line in a HV system
 - Continuity test, e. g. shield via HV components on body ground
 - Resistance measurement in HV system / on HV components
 - Simulation of insulation faults
 - Opening / bridging HV interlock or pilot line
- Measurement sockets:
 - HV+ und HV- with personal protection resistors 100 kOhm
 - HV+ und HV- without personal protection resistors, the measuring sockets are protected by overcurrent protection device 1 A
 - Two measuring sockets for insulation fault simulation HV ± 240 kOhm
 - Two measuring sockets for insulation fault simulation HV ± 60 kOhm
 - Shield
 - Pilot Out (HV interlock male)
 - Pilot Out (HV interlock female)
 - Quick change interface X1 and X2 ODU Medi Snap for adapter cable set
- Park position jumper plug (Storage)
- Measuring voltage max. 1000 V
- Measuring current max. 16 A

Application-specific interconnections of the HV measuring boxes with a detailed specification are possible on request.



HV adapter cable sets for the different HV connector types

Design:

- Contacting by spring-loaded contact pins
- Contour designed for 0-coding, protected against rotation (reverse polarity protection)
- Locking by means of locking lever
- Connection cables in 3 different lengths incl. connector X1 or X2 ODU Medi Snap
- Measuring voltage max. 1000 V
- Measuring current max. 16 A

HVA280



HPS40-2 without interlock



HVU280 / MEB





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Available HV adapter cable in three different lengths (article no.):

Туре	0.6 m	1.3 m	3.0 m
HVA280 for header	100000733540	100000733541	100000733542
HVA280 for plug	100000733546	100000733547	100000733548
HVR50 for header	100000733552	100000733553	100000733554
HVR50 for plug	100000733559	100000733560	100000733561
HVA630 for header	100000733543	100000733544	100000733545
HVA630 for plug	100000733549	100000733550	100000733551
HVR51 for header	100000733555	100000733556	100000733557
HVR51 for plug	100000733562	100000733563	100000733564
HVU280 / MEB* for header	100000733567	100000733568	100000733569
HVU280 / MEB* for plug	100000733649	100000733650	100000733651
HPS40-1 for header	100000733517	100000733518	100000733519
HPS40-1 for plug	100000733530	100000733531	100000733532
HPS40-2 for header	100000733520	100000733521	100000733522
HPS40-2 for plug	100000733533	100000733534	100000733535
HPS40-2 without IL for header	100000733523	100000733524	100000733525
HPS40-2 without IL for plug	100000733536	100000733537	100000733538
HVA1200 for header	100000733539		
HVA1200 for plug	100000733526		
HD400 for header	100000721639		
HD400 for plug	100000721638		
3WA.973.271 for header	100000724835		
3WA.973.271 for plug	100000723448		
HVSL362 for header			100000733566
HVSL362 for plug			100000733570

The variety of HV adapter cables is constantly extended by new developments.

* The adapter for the HVU280 / MEB female connector has been revised and can now adapt the connectors from the two manufacturers TE and Aptiv, previously only TE.

Safety check

For all the listed articles we can offer you a safety check service. We recommend carrying out safety checks once a year.

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