

ICMseries Accessories: Miscellaneous

HVT High Voltage Transformers

Power Diagnostix offers miscellaneous transformers as voltage source for testing purposes. Depending on the customer's needs and the specific testing application Power Diagnostix high voltage transformers cover a voltage range up to 300 kV. Please contact us for detailed information.



HV transformer HVT100/11

TCU Transformer Control Units

Power Diagnostix TCU is made for controlling of high voltage transformers. Together with HVcontrol it combines all standard functions required to manually or automatically operate a high voltage transformer, including safety loops, door locks, and all voltage and current measurements.

The transformer control unit comes in a moveable 19" rack and includes a built-in regulating transformer. The delivery range of the TCU includes a warning lamp and a built-in horn.

Examples:

Type	Voltage	Power	Current	Connection	Height	Dimensions W x H x D
TCU7.5	0-230 V	7.5 kVA	34 A _{max}	CEE 400/32A (L-N)	9 HU	553 x 506 x 600 mm
TCU10	0-230 V	10 kVA	48 A _{max}	CEE 400/63A (L-N)	9 HU	553 x 506 x 600 mm
TCU10/2	0-400 V	10 kVA	25 A _{max}	CEE 400/63A (L1-L2)	9 HU	553 x 506 x 600 mm
TCU25/2	0-400 V	25 kVA	34 A _{max}	CEE 400/63A (L1-L2)	34 HU	556 x 1627 x 600 mm

Transportation Case for the ICMseries Instruments

All instruments of the ICMseries can be delivered with a solid transport case with cut-out foam to carry one instrument and its accessories.

Width: 67 cm
 Height: 26 cm
 Depth: 51 cm
 Weight (empty): 11 kg





BCU Bushing Coupling Units

The bushing coupling units are for permanent installation on power transformer. Together with a matching bushing adapter they serve to make different signals available for measurement and monitoring. The bandwidth of the partial discharge signals extends to 20 MHz. The voltage signal of the built-in capacitive divider serves to synchronize the partial discharge acquisition and to measure the voltage. However, the excellent bandwidth of the voltage signal allows also transfer impedance measurements and $\tan\delta$ (loss factor) measurements. The bushing coupling unit comes in a IP65 protected enclosure with a PTFE insulated input cable. Thus, it is suitable for indoor and outdoor use. The voltage range and bushing capacitances (C1 and C2) have to be specified on order.



BCU2C

BA Bushing Adapters

Type	Thread	Size	Conn.	Size	Suitable for
BA2	inside	G3/4"	female	4 mm	Micafil standard, RTKF, RTKG
BA3	outside	M45x2	female	8 mm	ABB, GOB 1050-750-110-0.6-B
BA4 adapter	flange inside	-- M76x1,5	male	8 mm	Nanjing Electric, BRLW-500/1250-3
BA5	inside	M24	male	4 mm	HSP, ESKTFK 1050/245-A, OTFS 550/123-0
BA6	outside	M38x1,5	male	4 mm	Micafil, WTF 420/1800 (1978)
BA7C	outside	1 1/4"-12 UNF	female	8 mm	Pcore, CSA standard, POC, Trench, (C)OTA
BA7D	outside	1 1/4"-12 UNF	female	3.5 mm	Trench, OTA 363/1250/1300
BA8	inside	5/8"-11 UNC	--	3 mm	ABB, GOB 650/1250/L
BA9	outside	M30x1,5	female	4 mm	HSP, SETFt 1550/420-1800, SETFt 600-123-2000
BA9B	inside	M30x1,5	female	8 mm	Alstom Grid P.F. Tap
BA10	outside	M16x1,5	female	4 mm	Trench, COT 125-X...1800-X (< 123 kV)
BA10B	outside	M16x1,5	female	4 mm	Trench, COT 550/325/650-2500, COT(C) 125-X...1800-X, (≥ 123 kV)
BA11	flange		female	8 mm	ABB, GOA 650/1050, ASEA, GOA 1550 400 KV
BA12	outside	M30x2	female	6 mm	NGK, R-D5350D-KEW
BA14	outside	1 1/16"-12 UN	female	8 mm	Transelectrix
BA15	outside	M30x2	female	9 mm	NGK, R-C6200V-LN
BA17	outside	M30x2	female	4 mm	ABB, GOB 1050-750-1100-0.6-B, GSA 123-0A/1600/0.5, GSA 52-0A/2000/0.5
BA18	flange	--	female	8 mm	Mosizolyator, GMTA-90-110/2000
BA19	flange	--	female	8 mm	Mosizolyator, GMTA-45-330/2500
BA21	outside	M24x1.5	female	4 mm	HSP, SETFt 03d, SETFt 1425-420-1600, SETFt 750-170-4000
BA21B	outside	M24x1.5	female	4 mm	HSP, OTF (420-800 kV)
BA23	inside	M36x3	female	5 mm	BHEL, Tap Inv. no. BCE-4-1232
BA25	outside	1 1/4"-12 UNF	spring	--	Pcore Electric, B-81515-57-70
BA26	outside	1 1/8"-12 UNF	female	1/4"	Electro Composites, 350-006-T-730-00

The versatility of the Power Diagnostix line of PD detection equipment is due in large part to the range of accessories available for the ICMseries instruments. Each ICMseries data acquisition unit can be combined with different accessories to suit specific applications.