

<b>DC CURRENT TRANSFORMERS to measure current in wires</b>			
<b>Integrated Parametric CT</b>			
IPCT-xxxmA	IPCT, factory-set range: $\pm 1\text{mA} \dots \pm 5\text{A}$	2'350	+
-0.01%	High-accuracy calibration option 0.01%+-10uA	335	+
IPCT-PS-BNC	90-245Vac power supply & BNC output for IPCT	365	+
IPCT-CALCERT	IPCT initial certificate of Calibration w/documents	175	+
<b>DC CURRENT TRANSFORMER TO MEASURE BEAM DC CURRENT</b>			
<b>In-flange New Parametric Current Transformer, for UHV installation in the beam line</b>			
NPCT-CF2"3/4-22.2-120-UHV-	NPCT 22.2-mm ID, DN/NW35CF, 120mm axial	37'410	+
NPCT-CF3"3/8-34.9-120-UHV-	NPCT 34.9-mm ID, DN/NW50CF, 120mm axial	38'840	+
NPCT-CF3"3/8-38.0-120-UHV-	NPCT 38.0-mm ID, DN/NW50CF, 120mm axial	39'130	#
NPCT-CF4"1/2-47.7-120-UHV-	NPCT 47.7-mm ID, DN/NW63CF, 120mm axial	44'200	#
NPCT-CF4"1/2-60.4-120-UHV-	NPCT 60.4-mm ID, DN/NW63CF, 120mm axial	44'860	+
NPCT-CF6"-96.0-120-UHV-	NPCT 96.0-mm ID, DN/NW100CF, 120mm axial	50'600	+
NPCT-CF8"-147.6-120-UHV-	NPCT 147.6-mm ID, DN/NW160CF, 120mm axial	67'810	+
NPCT-CF10"-198.4-120-UHV-	NPCT 198.4-mm ID, DN/NW200CF, 120mm axial	79'130	#
-ARB#xxx	Non-round, arbitrary shape aperture option	1'760	+
-316LN-	AISI 316LN option, instead of 304	1'365	+
-CXXX-	Interconnect cable length, max 130 meters	16/meter	
-RHCXXX-	Rad-tolerant interconnect cable, max. 130 meters	46/meter	
-HR-	High-resolution sensor option	11'075	
-VHR-	Very high-resolution sensor option	17'420	-
-H	Radiation-tolerant sensor option	1'235	-
<b>New Parametric Current Transformer, for installation over the vacuum chamber</b>			
NPCT-055-	New-PCT sensor, >55mm ID	27'670	+
NPCT-075-	New-PCT sensor, >75mm ID	28'750	+
NPCT-115-	New-PCT sensor, >115mm ID	30'600	+
NPCT-175-	New-PCT sensor, >175mm ID	33'360	+
NPCT-195-	New-PCT sensor, >195mm ID	34'070	+
NPCT-202-	New-PCT sensor, >202mm ID	34'630	+
NPCT-245-	New-PCT sensor, >245mm ID	36'360	+
-CXXX-	Interconnect cable length, max 130 meters	16/meter	
-RHCXXX-	Rad-hard interconnect cable, max. 130 meters	46/meter	
-HR-	High-resolution sensor option	11'410	+
-VHR-	Very high-resolution sensor option	17'420	+
-H	Radiation-tolerant sensor option	1'235	-
<b>AC CURRENT TRANSFORMERS (BW: 3 Hz up to 1 MHz)</b>			
<b>In-flange ACCT sensors, for UHV installation in the beam line</b>			
ACCT-CF3"3/8-22.2-40-UHV-	ACCT, in DN/NW50CF, 22.2mm ID, 40mm axial	11'180	+
ACCT-CF4"1/2-34.9-40-UHV-	ACCT, in DN/NW63CF, 34.9mm ID, 40mm axial	12'250	+
ACCT-CF4"1/2-38.0-40-UHV-	ACCT, in DN/NW63CF, 38.0mm ID, 40mm axial	12'360	#
ACCT-CF6"-47.7-40-UHV-	ACCT, in DN/NW100CF, 47.7mm ID, 40mm axial	12'860	+
ACCT-CF6"-60.4-40-UHV-	ACCT, in DN/NW100CF, 60.4mm ID, 40mm axial	13'170	+
ACCT-CF6"3/4-96.0-40-UHV-	ACCT, in DN/NW130CF, 96.0mm ID, 40mm axial	14'540	+
ACCT-CF8"-96.0-40-UHV-	ACCT, in DN160/NW150CF, 96.0mm ID, 40mm axial	15'470	+
ACCT-CF10"-147.6-40-UHV-	ACCT, in DN/NW200CF, 147.6mm ID, 40mm axial	23'310	+
ACCT-CF12"-198.4-40-UHV-	ACCT, in DN/NW250CF, 198.4mm ID, 40mm axial	30'920	#

-CAW10-	10-turn calibration winding: not recommended	860	+
-316LN-	AISI 316LN option, instead of 304	1'365	+
-ARB#xxx	Outer flanges arbitrary shape aperture, 60mm axial	Obsolete	#
-ARB#xxx	Outer flanges arbitrary shape aperture, 40mm axial	4'160	#
-BK150C	Bakeout at 150°C option	1'905	+
-BK185C	Bakeout at 185°C option	Ask	
<b>ACCT sensors, for installation over the vacuum chamber</b>			
ACCT-S-016	ACCT sensor head, 16mm ID	1'530	+
ACCT-S-028	ACCT sensor head, 28mm ID	1'815	+
ACCT-S-055	ACCT sensor head, 55mm ID	2'650	+
ACCT-S-082	ACCT sensor head, 82mm ID	3'410	+
ACCT-S-122	ACCT sensor head, 122mm ID	4'335	+
ACCT-S-178	ACCT sensor head, 178mm ID	5'480	+
-VAC-	Sensor degassing option, for vacuum > 1E-4 Mbar	290	+
-CAW10-	10-turn calibration winding	580	+
-MSH-	ACCT Magnetic shield option, all IDs	+28%	
-H	ACCT radiation-tolerant sensor	130	+
<b>ACCT Electronics (mandatory) and cables</b>			
ACCT-E-xxxmA	ACCT Electronics box, current range: ±10mA...±5A	Obsolete	#
ACCT-E-RM-xxxmA	New ACCT rail-mount electronics, ACCT-E compatible.	775	#
5U15-15B	New ACCT rail-mount power supply	150	#
ACCT-C-XXm	Sensor cable, XX meters, max. 10 meters	16/meter	
ACCT-RHC-XXm	Rad-tolerant Siltem sensor cable, XX meters, max. 10m.	33/meter	+
<b>FAST CURRENT TRANSFORMERS</b>			
<b>In-flange Fast Current Transformers, for UHV installation in the beam line</b>			
FCT-CF3"3/8-22.2-40-UHV-	FCT, in DN/NW50CF, 22.2mm ID, 40mm axial	11'180	+
FCT-CF4"1/2-34.9-40-UHV-	FCT, in DN/NW63CF, 34.9mm ID, 40mm axial	12'250	+
FCT-CF4"1/2-38.0-40-UHV-	FCT, in DN/NW63CF, 38.0mm ID, 40mm axial	12'360	#
FCT-CF6"-47.7-40-UHV-	FCT, in DN/NW100CF, 47.7mm ID, 40mm axial	12'860	+
FCT-CF6"-60.4-40-UHV-	FCT, in DN/NW100CF, 60.4mm ID, 40mm axial	13'170	+
FCT-CF6"3/4-96.0-40-UHV-	FCT, in DN/NW130CF, 96.0mm ID, 40mm axial	14'540	+
FCT-CF8"-96.0-40-UHV-	FCT, in DN160/NW150CF, 96.0mm ID, 40mm axial	15'470	+
FCT-CF10"-147.6-40-UHV-	FCT, in DN/NW200CF, 147.6mm ID, 40mm axial	23'310	+
FCT-CF12"-198.4-40-UHV-	FCT, in DN/NW250CF, 198.4mm ID, 40mm axial	30'920	#
-316LN-	AISI 316LN option, instead of 304	1'365	+
-ARB#xxx	Outer flanges arbitrary shape aperture, 60mm axial	Obsolete	#
-ARB#xxx	Outer flanges arbitrary shape aperture, 40mm axial	4'160	#
-BK150C	Bakeout at 150°C option	1'905	+
-BK185C	Bakeout at 185°C option	Ask	
-50:1- Old part number	Sensitivity 0.50 V/A in 50 ohms	N/A	
-0.50- New part number	Sensitivity 0.50 V/A in 50 ohms	no charge	
-20:1- Old part number	Sensitivity 1.25 V/A in 50 ohms	N/A	!
-0.50- New part number	Sensitivity 1.25 V/A in 50 ohms	no charge	
-10:1- Old part number	Sensitivity 2.50 V/A in 50 ohms option	N/A	!
-2.50- New part number	Sensitivity 2.50 V/A in 50 ohms option	245	
-05:1- Old part number	Sensitivity 5.00 V/A in 50 ohms option	N/A	!
-5.0- New part number	Sensitivity 5.00 V/A in 50 ohms option	815	+
-10.0-	Sensitivity 10.0 V/A in 50 ohms option	Ask	#
-20.0-	Sensitivity 20.0 V/A in 50 ohms option	Ask	#
-LD-	Low-droop option	555	
-CAW10-	10-turn calibration winding: not recommended		

-H	Radiation-tolerant sensor option	240	+
<b>Fast Current Transformers, for installation over the vacuum chamber</b>			
FCT-016-	FCT, 16mm ID	1'530	+
FCT-028-	FCT, 28mm ID	1'815	+
FCT-055-	FCT, 55mm ID	2'650	+
FCT-082-	FCT, 82mm ID	3'410	+
FCT-122-	FCT, 122mm ID	4'335	+
FCT-178-	FCT, 178mm ID	5'480	+
-50:1- Old part number	0.50 V/A sensitivity	N/A	!
-0.50- New part number	0.50 V/A sensitivity	no charge	
-20:1- Old part number	1.25 V/A sensitivity	N/A	!
-1.25- New part number	1.25 V/A sensitivity	no charge	
-10:1- Old part number	2.5 V/A sensitivity, add	N/A	!
-2.5- New part number	2.5 V/A sensitivity, add	+7%	
-05:1- Old part number	5.0 V/A sensitivity, add	N/A	!
-5.0- New part number	5.0 V/A sensitivity, add	+21%	
-WB-	Wideband option	no-charge	
-LD-	Low-droop option	+17%	
-CAW10-	10-turn calibration winding: not recommended		
-VAC-	Sensor degassing option, for vacuum > 1E-4 Mbar	280	+
-H	Radiation-tolerant sensor option	240	+
<b>INTEGRATING CURRENT TRANSFORMERS AND ELECTRONICS</b>			
<b>In-flange Integrating Current Transformer, for UHV installation in the beam line</b>			
ICT-CF3"3/8-22.2-40-UHV-	ICT, in DN/NW50CF, 22.2mm ID, 40mm axial	11'180	+
ICT-CF4"1/2-34.9-40-UHV-	ICT, in DN/NW63CF, 34.9mm ID, 40mm axial	12'250	+
ICT-CF4"1/2-38.0-40-UHV-	ICT, in DN/NW63CF, 38.0mm ID, 40mm axial	12'360	#
ICT-CF6"-47.7-40-UHV-	ICT, in DN/NW100CF, 47.7mm ID, 40mm axial	12'860	+
ICT-CF6"-60.4-40-UHV-	ICT, in DN/NW100CF, 60.4mm ID, 40mm axial	13'170	+
ICT-CF6"3/4-96.0-40-UHV-	ICT, in DN/NW130CF, 96.0mm ID, 40mm axial	14'540	+
ICT-CF8"-96.0-40-UHV-	ICT, in DN160/NW150CF, 96.0mm ID, 40mm axial	15'470	+
ICT-CF10"-147.6-40-UHV-	ICT, in DN/NW200CF, 147.6mm ID, 40mm axial	23'310	+
ICT-CF12"-198.4-40-UHV-	ICT, in DN/NW250CF, 198.4mm ID, 40mm axial	30'920	#
-316LN-	AISI 316LN option, instead of 304	1'365	+
-ARB#xxx	Outer flanges arbitrary shape aperture, 60mm axial	Obsolete	#
-ARB#xxx	Outer flanges arbitrary shape aperture, 40mm axial	4'160	#
-H	Radiation-tolerant sensor option	240	+
-BK150C	Bakeout at 150°C option, not possible with Turbo	1'905	+
-BK185C	Bakeout at 185°C option	Ask	
<b>Sensitivity options for In-flange.ICT with 70-ns output pulse, new order codes</b>			
-50:1- Old part number	0.50 Vs/C sensitivity, 70ns output pulse	N/A	!
-0.50- New part number	0.50 Vs/C sensitivity, 70ns output pulse	No charge	
-20:1- Old part number	1.25 Vs/C sensitivity, 70ns output pulse	N/A	!
-1.25- New part number	1.25 Vs/C sensitivity, 70ns output pulse	No charge	
-10:1- Old part number	2.50 Vs/C sensitivity, 70ns output pulse	N/A	!
-2.50- New part number	2.50 Vs/C sensitivity, 70ns output pulse	245	+
-05:1- Old part number	5.00 Vs/C sensitivity, 70ns output pulse	N/A	!
-5.00- New part number	5.00 Vs/C sensitivity, 70ns output pulse	815	+
-10.0-	10.0 Vs/C sensitivity, 70ns output pulse	2'885	#
-20.0-	20.0 Vs/C sensitivity, 70ns output pulse	5'620	#
-40.0-	40.0 Vs/C sensitivity, 70ns output pulse	Ask	#

-LD	Low-droop option (available only up to 5.00 Vs/C)	555	+
-CAW	Calibration winding, ICT with 70ns output only	850	+
<b>Sensitivity options for In-flange.ICT with Turbo RF carrier output</b>			
-Turbo1	Noise 20 fC/pulse, RF carrier output	4'430	#
-Turbo2	Noise 10 fC/pulse, RF carrier output	5'360	#
-Turbo4	Noise 5 fC/pulse, RF carrier output	6'490	#
-Turbo8	Lowest noise, RF carrier output	Ask	#
<b>"in-air" ICT, for installation over the vacuum chamber</b>			
ICT-016-	ICT, 16mm ID	2'810	+
ICT-028-	ICT, 28mm ID	3'100	+
ICT-055-	ICT, 55mm ID	4'320	+
ICT-082-	ICT, 82mm ID	5'290	+
ICT-122-	ICT, 122mm ID	6'310	+
ICT-178-	ICT, 178mm ID	7'760	+
-50:1- Old part number	0.50 Vs/C sensitivity, 70ns output pulse	N/A	!
-0.50- New part number	0.50 Vs/C sensitivity, 70ns output pulse	No charge	
-20:1- Old part number	1.25 Vs/C sensitivity, 70ns output pulse	N/A	!
-1.25- New part number	1.25 Vs/C sensitivity, 70ns output pulse	No charge	
-10:1- Old part number	2.50 Vs/C sensitivity, 70ns output pulse	N/A	!
-2.50- New part number	2.50 Vs/C sensitivity, 70ns output pulse	+7%	
-05:1- Old part number	5.00 Vs/C sensitivity, 70ns output pulse	N/A	!
-5.00- New part number	5.00 Vs/C sensitivity, 70ns output pulse	+21%	
-10.0- New part number	10.0 Vs/C sensitivity, 70ns output pulse	+48%	#
-VAC	Sensor degassing, "in-air" ICT only	280	+
<b>Beam Charge Monitor to measure charge from ICT</b>			
BCM-IHR-E	BCM plug-in card for 70ns output pulse ICT	8'860	
BCM-RF-E	BCM plug-in card for In-flange.ICT with RF carrier output	8'860	#
BCM-CA-E	BCM Continuous Averaging plug-in card	Obsolete	
BCM-RFC/xx	BCM RF-Shielded powered chassis	1'240	+
	for xx BCM stations, (Max.18) add	+260/st.	+
BCM-EPS-FO	Enclosure w/FO trigger daisy chain + power supply	885	+
BCM-C-xxx	BCM SMA-SMA xxx-meter radox cable	175+7.7/m	+
BCM-RHC-xxx	BCM SMA-SMA xxx-meter , PEEK connectors	755+7.7/m	#
<b>BEAM POSITION MONITORS</b>			
<b>Multiplexed Beam Position Monitor</b>			
MX-BPM	BPM electronics module for fixed RF	3'480	+
MX-BPM-FG	Fast NIM gate option	Obsolete	
MX-BPM/CUS.xx	One-time customizing charge for new frequency	Ask	#
<b>Log-ratio Beam Position Monitor, for single bunch, long macropulse and CW</b>			
LR-BPM	Log-ratio BPM	3'225	+
LR-BPM-SH	Sample & Hold on X and Y	710	+
LR-BPM-TRG	On-board beam trigger	300	+
LR-BPM-SUM	Sum of logs output	160	+
LR-BPM-ABCD	Direct A,B,C,D wideband outputs	265	+
LR-BPM/CUS.xx	One-time customizing charge for new frequency	2'050	-
<b>S-band Beam Position Monitor, for single bunch, long macropulse and CW</b>			
S-BPM	S-band BPM	4'080	+
S-BPM-SH	Sample & Hold on X and Y	710	+
S-BPM-TRG	On-board beam trigger	300	+
S-BPM-SUM	Sum of logs output	160	+
S-BPM-ABCD	Direct A,B,C,D wideband outputs	265	+

S-BPM/CUS.xx	One-time customizing charge for new frequency	Ask	#
S-BPM-FEFA	S-band filter & amplifier, one per pickup	1'260	-
S-BPM-FEFA/CUS.xx	One-time customizing charge for new frequency	Ask	#
<b>Baseband Beam Position Monitor, for ions / medical accelerators</b>			
BB-BPM	Baseband Log-ratio BPM	3'310	
BB-BPM-TRG	On-board beam trigger	290	
BB-BPM-SUM	Sum of logs output	155	
BB-BPM-ABCD	Direct A,B,C,D wideband outputs	265	+
BB-BPM/CUS.xx	One-time customizing charge for new frequency	2'050	-
BB-FEFA	Baseband Front-end Filter & Amplifier high-impedance	1'560	-
<b>BPM accessories, common to all BPMs</b>			
BPM-RFC/xx	Chassis with power supply	1'460	+
	for xx BPM stations, (max.16) add	+285/st.	+
BPM-RFC-ABCD/xx	SMA ABCD chassis outputs	+260/st.	+
BPM-EPS	Enclosure and power supply for 1 BPM module	750	+
BPM-LPF/1kHz	X-Y output low-pass filter 1 kHz for 1 station	70	
BPM-KIT	Table-top test kit	760	+
BPM-XTD	Module extender	680	+
BPM-SERV/RF	RF output service module	400	+
BPM-SERV/CMD	TTL input service module	400	+
BPM-BBC	Beam-based center determination (LR- and BB-BPM only)	1'010	+
BPM-BPF/500MHz	SMA-SMA band-pass filter 500 MHz	105	+
BPM-CMC/3.0	Coax. cable common mode core ID=3mm, 100 pcs	Obsolete	#
BPM-CMC/5.0	Coax. cable common mode core ID=5mm, 100 pcs	Obsolete	#
BPM-C-xxx	BPM SMA-SMA xxx-meter Radox cable	175+7.7/m	+
BPM-RHC-xxx	BPM SMA-SMA xxx-meter , PEEK connectors	755+7.7/m	#
<b>4-channel Beam Position Analog Frontends</b>			
BPM-AFE/PCI	PCI mezzanine board 4-pickups down converter	1'690	+
BPM-AFE/CUS	One-time customizing charge for new layout	Ask	
<b>BEAM PROFILE MONITORS</b>			
VWM-S1		Obsolete	
VWM-LA50		Obsolete	
VWM-LA60		Obsolete	
VWM-S5/xx		Obsolete	
VWM-S-1W-A5mm	Sensor, 1 wire, 5mm free aperture	2'360	
VWM-S-1W-A20mm	Sensor, 1 wire, 20mm free aperture	2'650	
VWM-S-1W-A40mm	Sensor, 1 wire, 40mm free aperture	2'860	
VWM-S-1W-A60mm	Sensor, 1 wire, 60mm free aperture	3'080	
-SS	Stainless steel wire, 100um	N/C	
-B	Bronze wire, 125um	N/C	
-W	Tungsten wire, 100um	N/C	
VWM-FEE	Front-end electronics for 2 wires	1'525	+
VWM-RFC	RF chassis for up to six 2WB circuits	3'255	+
VWM-2WB	In-chassis board supporting 2 wires	2'175	+
VWM-TWP/Xm	Sensor cable twisted shielded Siltem	33/meter	+
VWM-RJC	Front-end to chassis RJ45 cat.5 cable, max. 50m	buy locally	
<b>BEAM LOSS MONITOR</b>			
<b>PIN-photodiode coincidence based loss detector</b>			
BLM	BLM with 7.34 mm <sup>2</sup> coincidence PIN-diodes	450	+
<b>RECALIBRATION SERVICES</b>			
IPCT	Incl. Calibration Certificate 12 months renewable	230	+

MPCT-E electronics	Incl. Calibration Certificate 12 months renewable	575	+
NPCT-E electronics	Incl. Calibration Certificate 12 months renewable	1'700	+
<b>FIXED-PRICE REPAIR SERVICES</b>			
Electronics repairs			
- IPCT	Restore to original performance, incl. calibration	790	+
- MPCT-E electronics	Restore to original performance, incl. calibration	1'370	+
- NPCT-E cassette	Restore to original performance, incl. calibration	2'010	+
- ACCT-E electronics	Restore to original performance, incl. calibration	330	+
- BCM-IHR-E / BCM-CA-E	Restore to original performance, incl. calibration	3'035	+
- MX-BPM	Restore to original performance, incl. calibration	1'160	+
- LR-BPM, S-BPM	Restore to original performance, incl. calibration	1'025	+
- BB-BPM, LR-BPPM	Restore to original performance, incl. calibration	1'050	+
- BPM-AFE, LLRF-AFE	Restore to original performance, incl. calibration	535	+
- BLM		155	+
Sensors FCT, ICT, TCT, ACCT-S, MPCT-S or NPCT-S broken connectors			
- In-air model	Restore to original performance, incl. calibration	790	+
- In-air -H model	Restore to original performance, incl. calibration	1'080	+
- In-flange model	Restore to original performance, incl. calibration	565	+
- In-flange -H model	Restore to original performance, incl. calibration	850	+
- Sensors damaged by heat or radiations		Ask	
- Sensors refurbishing		Ask	
<b>RADIATION-TOLERANT CABLES</b>			
COAX-RHC/xxx (meters)	50-ohm Radox GX03272 with PEEK SMA plugs	755+7.7/m	#
TWP-RHC/xxx (meters)	100-ohm twisted pair Siltem with Rytan Twinax	165+33/m	#
MCORE-RHC/xxx (meters)	8-pair multicore Siltem with glass-filled DB15 m/female	180+46/m	#

<b>TERMS</b>		
	Quantity discounts 1:	0 %
Prices in Euro	2-4:	3 %
Ex-works Saint Genis Pouilly, France	5-9:	7 %
30 days net	10-24:	13 %
	25-49:	20 %
Recalibration and repairs:	50-99:	25 %
- Net prices, no discounts	100-199:	30 %
- Ask distributor for a Return Authorisation Number	200+:	35 %
- Return to factory freight prepaid, shipment back to user freight collect		