

# CURRENT TRANSFORMERS

Smart Current Transformers and  
Easy Voltage Taps for Energy Measurement

© 2015 Webdom Labs, S.L.



  
**webdom**  
Renewables under control

# Split-core Current Transformer

COMPACT SPLIT-CORE CURRENT TRANSFORMERS FOR CABLES

## Fast and simple current measurement

Superfast and accurate current measurement is the result of using our compact split-core current transformers. WEBDOM CT-series is ideal for use in existing installations and in combination with digital measurement systems.

Additionally, they are easy to install because of the colour-coded leads supplied with the current sensor. The transformers meet IEC61869-2, which guarantees accuracy. The burden and class specifications apply to the conditions at the end of the leads.

### PROPERTIES

- \* Compact and split-core
- \* Suitable for insulated conductor
- \* Colour-coded leads simplifying installation
- \* CT (ø 42mm) top-part can be removed entirely



## ENERGY MANAGEMENT LINE: Split-core Current Transformer

### ORDER SPECIFICATIONS

Ratio	(Ø18mm)			(Ø18mm)			(Ø28mm)			(Ø42 mm) (2xØ42mm)			
	Class	Burder	Article	Class	Burder	Article	Class	Burder	Article	Class	Burder	Article	
60/1	3	0,2 VA	CT0101										
75/1	3	0,2 VA	CT0102										
100/1	3	0,2 VA	CT0103	1	0,2 VA	CT0123							
125/1	3	0,2 VA	CT0104	1	0,2 VA	CT0124							
150/1	3	0,2 VA	CT0105	1	0,2 VA	CT0125							
200/1	3	0,2 VA	CT0106	1	0,2 VA	CT0126	1	0,2 VA	CT0301				
	1	0,2 VA	CT0106B										
250/1	1	0,2 VA	CT0107	0,5	0,2 VA	CT0127	1	0,2 VA	CT0302	1	0,5 VA	CT0350	CT0360
300/1							1	0,2 VA	CT0303	1	0,5 VA	CT0351	CT0361
400/1							1	0,2 VA	CT0304	0,5	0,5 VA	CT0352	CT0362
500/1							0,5	0,2 VA	CT0305	0,5	0,5 VA	CT0353	CT0363
600/1										0,5	0,5 VA	CT0354	CT0364
750/1										0,5	0,5 VA	CT0355	CT0365
800/1										0,5	0,5 VA	CT0356	CT0366
1000/1										0,5	0,5 VA	CT0357	CT0367
150/5				1	1 VA	CT0221							
200/5				1	1 VA	CT0222							
250/5				1	1 VA	CT0223	1	1 VA	CT0231				
300/5							1	1 VA	CT0232	1	0,5 VA	CT0251	CT0261
400/5							1	1 VA	CT0233	1	0,5 VA	CT0252	CT0262
500/5							1	1 VA	CT0234	1	0,5 VA	CT0253	CT0263
600/5										0,5	0,5 VA	CT0254	CT0264
750/5										0,5	0,5 VA	CT0255	CT0265
800/5										0,5	0,5 VA	CT0256	CT0266
1000/5										0,5	0,5 VA	CT0257	CT0267

# Webdom Power Sensor

CURRENT TRANSFORMER WITH FUSED TERMINAL

## Stand-alone current and voltage measurements

To measure power the voltage and current values of each phase are required. This Power Sensor combines three functions in one product: the rail terminal, the current transformer and the fused voltage tap. So the power sensor enables both an accurate current measurement and a voltage measurement in one product. Application of the results in meeting higher safety requirements, reliable measurement, less required mounting space and lower installation costs.

### PROPERTIES

- \* Railterminal with integrated current transformer and fused voltage tap
- \* Easy to install
- \* Specially developed for power measurement up to 64A
- \* Suitable for fuse with breaking capacity up to 70kA

### ORDER SPECIFICATIONS

Ratio	Class	Burder	Article
16/1	3	0,1 VA	VCT01
35/1	1	0,2 VA	VCT02
64/1	0,5	0,2 VA	VCT03

1) Ext. cable losses = 0,014VA/m (2,5mm<sup>2</sup>)



# Webdom Current Transformer

FOR USE WITH THREE PHASE CIRCUIT BREAKER

## IEC transformer for accurate current measurement

Nowadays, a more detailed current measurement is required in many installations. Often this means less available space while measuring relatively low values. In addition, the accuracy of the measurement has to be sufficient (at least class 1). The current transformer meets those requirements in one product. This very compact current transformer is especially designed for connection to digital measurement systems. The main advantage is that the dimensions of this product are designed for use in a three phase circuit breaker with a phase distance of 17,5mm. This is supplied with a connector with clamp technology for easy installation of the secondary leads. Optional: screw mounting or mounting on a DIN-rail.

### PROPERTIES

- \* Meets IEC61869-2 requirements
- \* Ideal for detailed current measurements
- \* Connector with clamp technology
- \* Primary window suitable for cable  $\varnothing$  7,5mm

### ORDER SPECIFICATIONS

Ratio	Class	Burder	Article
35/1A	1	0,2 VA	CT0380
64/1A	1	0,2 VA	CT0381
Mounting Clip			CT0382



# Webdom Voltage Tap

## FOR BUSBAR AND RAIL MOUNTING

WEBDOM's easy voltage tap for busbar or rail mounting can be used to make a safe and simple fused voltage tap in your distribution system. The main advantage of the voltage tap is that the tap is directly fused on the voltage carrying rail. In this way both the measurement wiring and the object to connect are protected with the fuse. Fitting them on the busbar and under an existing attachment point (M6 or M8 bolt) on the voltage rail is easy to carry out due to the "hook" construction. The products have a high short-circuit resistance, making them extremely suitable for several types of installations with a busbar.

### PROPERTIES

- \* Safe tapping of voltage for measurement purposes
- \* All models with fuse directly on busbar and rail
- \* Perfectly suitable for use with power meters
- \* Easy and safe mounting
- \* Suitable for fuse with breaking capacity up to 70kA



CT0393

CT0394

ORDER SPECIFICATIONS	
Description	Article
Fused phase terminal	CT0390
Neutral terminal unfused	CT0391
Set (3x500040 & 1x500042)	CT0392
Fused voltage tap for fitting M6 bolts	CT0393
Fused voltage tap for fitting M8 bolts	CT0394



CT0391

CT0390

# Webdom Voltage Tap

FOR WIRES: WITH OR WITHOUT FUSE

In existing installations there is rarely a fused terminal available for measurement purposes. This voltage tap allows you to tap a fused voltage from an insulated wire for measurement using one hand and without the need for additional tools. The fuse is mounted directly on the primary conductor, which results in an optimum degree of safety. This unique product is a breakthrough for fast and safe measurement in existing installations.

## PROPERTIES

- \* Safe tapping of voltage for measurement purposes
- \* Easy and safe mounting
- \* Suitable for fuse with breaking capacity up to 70kA

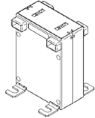
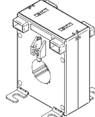
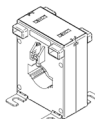
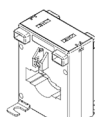
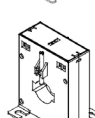
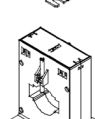
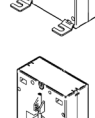
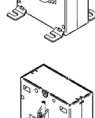
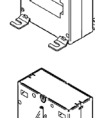
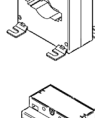


## ORDER SPECIFICATIONS

Cable Size	Cable type	Description	Article
2,5-6mm <sup>2</sup>	Solid and Stranded	Fused phase terminal	CT0401
		Neutral Terminal	CT0402
		Terminal set (3x 500072R & 1x 500073R)	CT0403
10-16mm <sup>2</sup>	Solid and Stranded	Fused phase terminal	CT0404
		Neutral Terminal	CT0405
		Terminal set (3x 500070 & 1x500071)	CT0406
150mm <sup>2</sup>	Sector- Shaped	Fused phase terminal	CT0407

## DIMENSIONAL DIAGRAMS

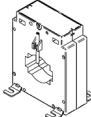
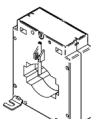
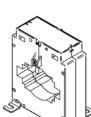
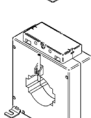
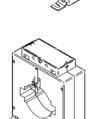
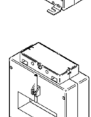
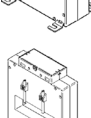
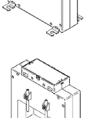
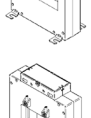
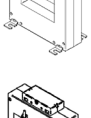
### ORDER SPECIFICATIONS

Model	Cable	Busbar	CT type	Heights of CT	File
RM60N-D	6mm <sup>2</sup>		RM60N-DA	30mm	
RM60N-E2	Ø 22,7 mm	20 x 10(22,7)mm 15 x 10(22,7)mm	RM60N-E2A RM60N-E2B RM60N-E2C	30mm 50mm 70mm	
RM60N-E3	Ø 24,5 mm	30 x 10(13,5)mm 25 x 10(11,7)mm 20 x 10(10,5)mm	RM60N-E3A RM60N-E3B RM60N-E3C	30mm 50mm 70mm	
RM60N-E4	Ø 24,5 mm	40 x 10(12,5)mm 30 x 10(14,5)mm	RM60N-E4A RM60N-E4B RM60N-E4C	30mm 50mm 70mm	
RM70-E3	Ø 24,5 mm	30 x 10(10,5)mm	RM70-E3A RM70-E3B	30mm 50mm	
RM70-E4	Ø 30,5 mm	40 x 10(13,8)mm 30 x 10(17,8)mm	RM70-E4A RM70-E4B	30mm 50mm	
RM85-E4	Ø 30,6 mm	40 x 10(13,6)mm 30 x 10(15,6)mm	RM85-E4A RM85-E4B RM85-E4C	40mm 55mm 70mm	
RM85-E5	Ø 30,6 mm	50 x 10(16)mm 40 x 10(18)mm 30 x 10(20)mm	RM85-E5A RM85-E5B RM85-E5C	40mm 55mm 70mm	
RM85-5/2	Ø 31 mm	60 x 10(15)mm 2 x 50 x 10(50x30)mm	RM85-E5/2A RM85-E5/2B RM85-E5/2C	40mm 55mm 70mm	
RM85-E6	Ø 30,6 mm	60 x 10mm 50 x 10(13)mm 40 x 10(15)mm	RM85-E6A RM85-E6B RM85-E6C	40mm 55mm 70mm	
RM85-W4		40 x 8mm	RM85-W4	110mm	



## DIMENSIONAL DIAGRAMS

### ORDER SPECIFICATIONS

Model	Cable	Busbar	CT type	Heights of CT	File
RM100-E4	Ø 31 mm	40 x 10(13,5)mm 30 x 10(15,5)mm	RM100-E4A	40mm	
			RM100-E4B	55mm	
			RM100-E4C	70mm	
RM100-E5	Ø 41 mm	50 x 10(15,5)mm 2 x 40 x 10(2x30)mm	RM100-E5A	40mm	
			RM100-E5B	55mm	
			RM100-E5C	70mm	
RM100-E6	Ø 46 mm	60 x 10(15,5)mm 2 x 50 x 10(50x30)mm	RM100-E6A	40mm	
			RM100-E6B	55mm	
			RM100-E6C	70mm	
RM100-E8	Ø 51 mm	80 x 10(15)mm 2 x 60 x 10(31)mm 2 x 50 x 10(41)mm	RM100-E8A	40mm	
			RM100-E8B	55mm	
			RM100-E8C	70mm	
RM120-E6	Ø 51 mm	60 x 10(15,5)mm 2 x 50 x 10(50x30)mm	RM120-E6A	50mm	
			RM120-E6B	65mm	
			RM120-E6C	80mm	
RM120-E8	Ø 61 mm	80 x 10(15,5)mm 2 x 60 x 10(60c30)mm	RM120-E8A	50mm	
			RM120-E8B	65mm	
			RM120-E8C	80mm	
RM120-E8/2	Ø 31 mm	2 x 80 x 10(30)mm	RM120-E8/2A	50mm	
			RM120-E8/2B	65mm	
			RM120-E8/2C	80mm	
RM140-E10/2	Ø 31 mm	2 x 100 x 10(30)mm	RM140-E10/2A	40mm	
			RM140-E10/2B	60mm	
			RM140-E10/2C	80mm	
RM140-E10/3	Ø 50 mm	3 x 100 x 10(50)mm	RM140-E10/3A	40mm	
			RM140-E10/3B	60mm	
			RM140-E10/3C	80mm	
RM140-E8/4	Ø 70 mm	4 x 80 x 10(70)mm	RM140-E8/4A	40mm	
			RM140-E8/4B	60mm	
			RM140-E8/4C	80mm	
RM160-E10/4	Ø 40 mm	2 x 100 x 10(41)mm	RM160-E10/4A	50mm	
			RM160-E10/4B	70mm	
			RM160-E10/4C	90mm	

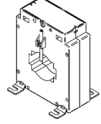
## DIMENSIONAL DIAGRAMS

### ORDER SPECIFICATIONS

Model	Cable	Busbar	CT type	Heights of CT	File
RM160-E12/2	Ø 30 mm	2 x 120 x 10(30)mm	RM160-E12/2A RM160-E12/2B RM160-E12/2C	50mm 70mm 90mm	
RM200-E10/2	Ø 34 mm	2 x 100 x 10(34)mm	RM200-E10/2	70mm	
RM200-E12/3	Ø 53 mm	3 x 120 x 10(53)mm	RM200-E12/3	70mm	
RM200-E13/3	Ø 54 mm	3 x 130 x 10(54)mm	RM200-E13/3	70mm	
RM200-E14/2	Ø 34 mm	2 x 140 x 10(34)mm	RM200-E14/2	70mm	
RM200-E8/3	Ø 54 mm	3 x 80 x 10(54)mm	RM200-E8/3	70mm	
RM240-E150	Ø 150 mm		RM240-E150	50 mm	
RM 250-E13/6	Ø 110 mm	6x130x10(110)mm	RM250-E13/6A RM250-E13/6B RM250-E13/6C	50mm 70mm 90mm	
RM250-E16/4	Ø 70 mm	4x160x10(70)mm	RM250-E16/4A RM250-E16/4B RM250-E16/4C	50mm 70mm 90mm	
RM250-E20/4	Ø 70 mm	4x200x10(70)mm	RM250-E20/4A RM250-E20/4B RM250-E20/4C	50 mm 70 mm 90 mm	
RM250-E145x82	Ø 80 mm	145x82mm special	RM250-E145x82A RM250-E145x82B RM250-E145x82C	50 mm 70mm 90mm	

## DIMENSIONAL DIAGRAMS

### APPLICATION EXAMPLE

Model	Cable	Busbar	CT type	Heights of CT	File
RM160-E10/4	Ø 40 mm	2 x 10 x 10(41)mm	RM160-E10/4A	50mm	
			RM160-E10/4B	70mm	
			RM160-E10/4C	90mm	

### PROPERTIES

- 1.- Circular bar, 40mm is the maximum diameter.
- 2.- The RM160-E10/4 model allows instal two bars 100x10 mm inside the hole.
- 3.- The height of the maximum hall is 41 mm.

# WEBDOM.ES

## **MONITORING SYSTEM - PV**

Overview 2015



[facebook.com/WebdomLabs](https://facebook.com/WebdomLabs)

[twitter.com/WebdomLabs](https://twitter.com/WebdomLabs)

Check product availability at Webdom Labs  
Product list applicable to 2015.