



## CURRENT TRANSFORMERS FOR ELECTRONIC ELECTRICITY METERS

- HIGH ACCURACY CURRENT TRANSFORMERS
- DC IMMUNE CURRENT TRANSFORMERS
- PCB MOUNTING CURRENT TRANSFORMERS
- SHIELDED CURRENT TRANSFORMERS
- SPLIT CORE CURRENT TRANSFORMERS
- Good linear performance, high accuracy;
- Pass the self-heating testing;
- Good DC tolerance;
- Immune against external magnetic field can be designed;
- Conform to IEC 62053-21.

## ABOUT TOPRO TECHNOLOGY

Yueqing RunEasy Electronic Technology (brand name :ToPro Technology ), Led by a group of savvy engineers and industrial experts with over 20 years technical experience, is a leading Electricity meter components manufacture in China ,dedicated in R&D, production and supply Current transformers, latching relays, shunts, copper links, meter enclosures. Besides, we also support regular Current transformers, split core current transformers for customers.

—High accuracy current transformer for electricity meters, including: DC immune CT, Non -DC immune CT, CT against magnetic field, with high accuracy 0.2Class, 0.1Class and 0.05 class. Conform to Europe standard IEC62053-21 and DIN EN 50470-3.

—Latching relays, including single phase, two phase and three phase latching relays, certificated according to IEC 62055-31 and IEC61810-1, have been approved and applied widely in many tenders in worldwide.

—Electricity meter enclosures for single phase and three phase meters, DIN rail meters.

—Shunts, copper links, brass terminals can be customized.

— Split core current transformer: With multiple window sizes  $\Phi 10\text{mm}$ ,  $\Phi 16\text{mm}$ ,  $\Phi 24\text{mm}$ ,  $\Phi 36\text{mm}$  and many output rating choices including 0-500mA, 333mV, 1A& 5A.

—Residual Current Transformers for fire Monitoring.

—Zero sequence current transformer.

—The factory passed ISO9001 quality system certification, and production line carry out TS16949 to guarantee the products quality stable and reliable in long term.

— We paid much attention to cooperate with the materials suppliers, the amorphous alloy materials which developed together have been applied in DC immunity Current transformer successfully, AC and DC error limits under resistive load and inductive load, conform to Europe standard IEC62053-21 and DIN EN 50470-3.

— The advanced production and testing equipment ensure the reliable quality. The workshop equipped automatic winding machines, High-low temperature test chambers; Epoxy resin automatic filling machines, CT Inductance Testers and Calibrators ensure the CT production with high output and good accuracy class.

—We export to Spain, Portugal, Germany, Turkey, Brazil, India, South Africa, Egypt, Japan and others overseas market.

Welcome to Join hundreds of TOPRO 's happy customers, you won't be disappointed.

### YUEQING RUNEASY ELECTRONIC TECHNOLOGY CO.,LTD.

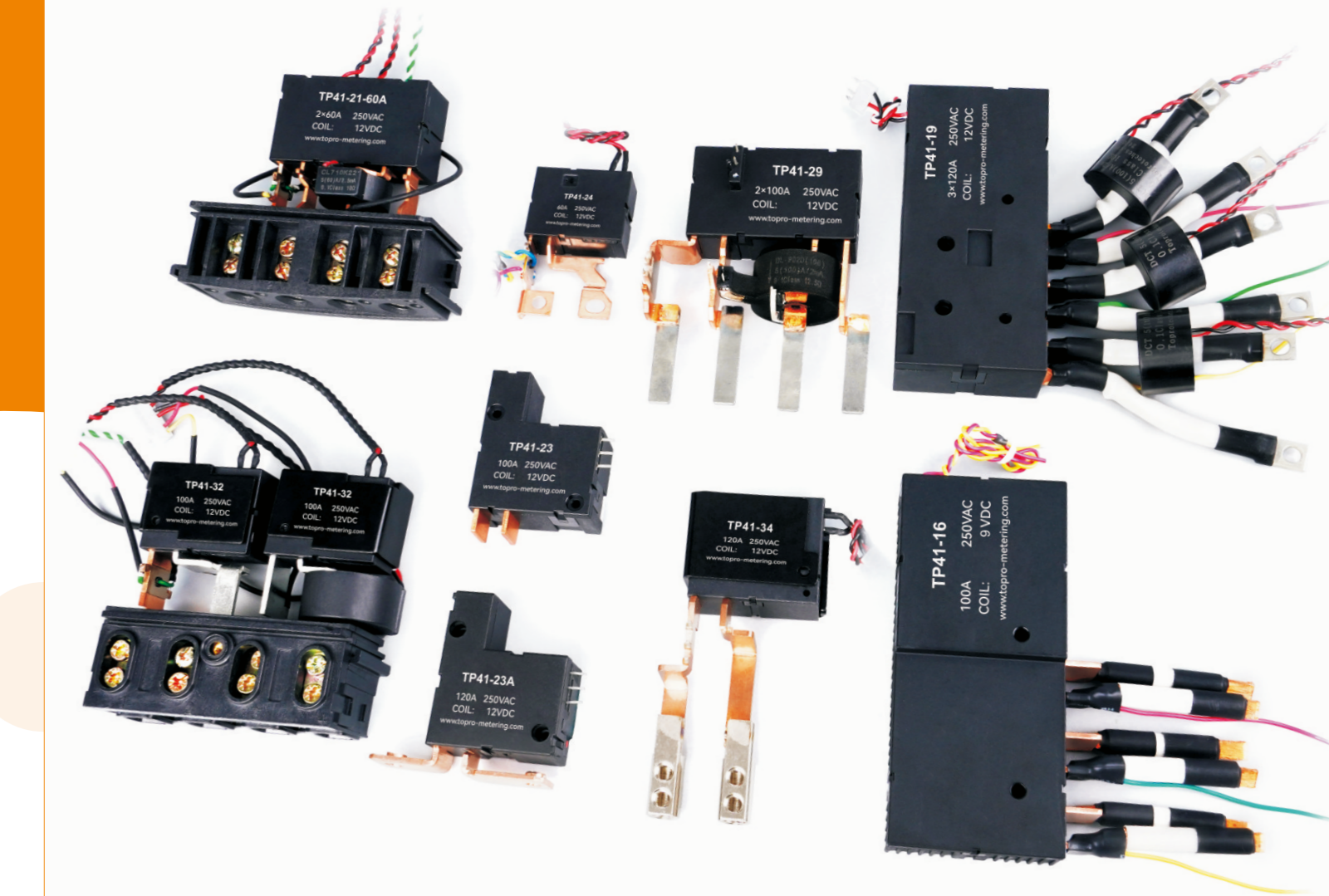
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## LATCHING RELAYS CURRENT TRANSFORMERS

For electronic electricity meters



- 20 years experiences
- 30+ countries
- 200+ partners
- 10 Millions relays and CT Product Capability annually

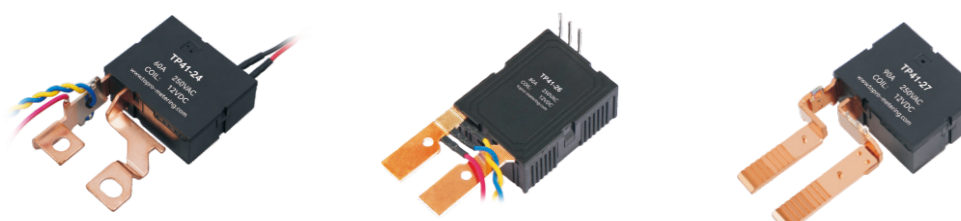


## LATCHING RELAYS

- 60A ,80A, 100A and 120A/250VAC reliable switching;
- Multi-layer copper blades, low temperature rise;
- Conform to IEC61810-1 and IEC 62052-31 UC2 UC3;
- Cost advantage, we can support you from small quantities.




**Latching relays**



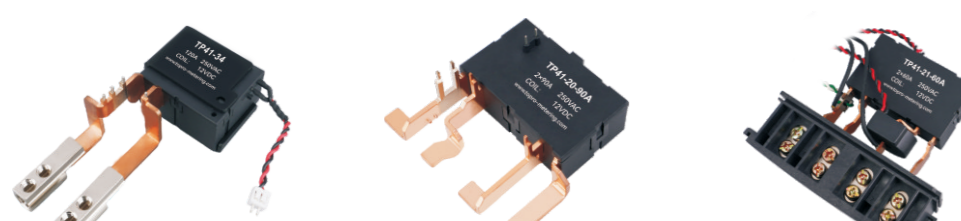
	TP41-24 ROSH Compliant	TP41-26 ROSH Compliant	TP41-27 ROSH Compliant
Contact form	1A,1B	1A,1B	1A,1B
Max. switching current	60A	80A	90A
Coil power	single coil 1W, double coils 2W	single coil 1W, double coils 2W	single coil 1.5W, double coils 3W
Outline dimensions	38×30×15mm	39×30×16.5mm	38×30×16.5mm
Conform to	IEC62055-31 UC1	IEC62055-31 UC1	IEC62055-31 UC2

**Latching relays**



	TP41-23 ROSH Compliant	TP41-32 ROSH Compliant	TP41-28A ROSH Compliant
Contact form	1A,1B	1A,1B	1A,1B
Max. switching current	100A	100A	120A
Coil power	single coil 2W, double coils 4W	single coil 2W, double coils 4W	single coil 2W, double coils 4W
Outline dimensions	52×43×22mm	40×31×18mm	43.2×33.2×22mm
Conform to	IEC62055-31 UC2,UC3	IEC62055-31 UC2	IEC62055-31 UC3

**Latching relays**




	TP41-34 ROSH Compliant	TP41-20-90A ROSH Compliant	TP41-21-60A ROSH Compliant
Contact form	1A,1B	2A,2B	2A,2B
Max. switching current	120A	90A	60A
Coil power	single coil 3W, double coils 6W	single coil 3W, double coils 6W	single coil 3W, double coils 6W
Outline dimensions	43×37×22mm	54.4×34×19mm	61×36×21mm
Conform to	IEC62052-31 UC3		IEC62052-31 UC2
Terminal configuration		LLNN	LLNN

**Latching relays**



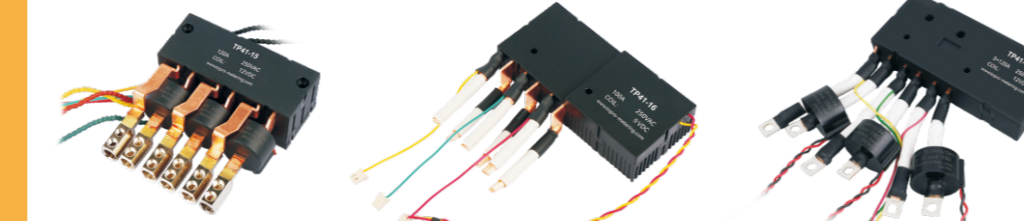
	TP41-21-90A ROSH Compliant	TP41-22-100A ROSH Compliant	TP41-29-100A ROSH Compliant
Contact form	2A,2B	2A,2B	2A,2B
Max. switching current	90A	100A	100A
Coil power	single coil 3W, double coils 6W	single coil 3W, double coils 6W	single coil 3W, double coils 6W
Outline dimensions	61×36×21mm	61×36×21mm	61×36×21mm
Conform to	IEC62052-31 UC2	IEC62052-31 UC2, UC3	IEC62052-31 UC2, UC3
Terminal configuration	LNNL	LNNL	LLNN

**Latching relays**




	TP41-12 ROSH Compliant	TP41-10 ROSH Compliant	TP41-14 ROSH Compliant
Contact form	3A,3B	3A,3B	3A,3B
Max. switching current	80A	100A	100A
Coil power	single coil 2.5W, double coils 5W	single coil 2.5W, double coils 5W	single coil 2.5W, double coils 5W
Outline dimensions	100×45×21mm	116×52×28mm	116×52×24mm
Conform to	IEC62053-31 UC2	IEC62052-31 UC2, UC3	IEC62052-31 UC2,UC3

**Latching relays**




	TP41-15 ROSH Compliant	TP41-16 ROSH Compliant	TP41-19 ROSH Compliant
Contact form	3A,3B	3A,3B	3A,3B
Max. switching current	120A	100A	120A
Coil power	single coil 3W, double coils 6W	single coil 2.5W, double coils 5W	single coil 2.5W, double coils 5W
Outline dimensions	98.4×40.3×37.8mm	120×54×29.5mm	116×52×24mm
Conform to	IEC61810-1	IEC61810-1	IEC62052-31 UC2, UC3

**High accuracy current transformers**




Part No.	Primary current I <sub>max</sub> (A)	Ratio (Turns)	Accuracy Class	Load (Ω)	Dimensions ID-OD-H (Unit: mm)
CT-C01	60A	1:2000	0.1	10	2.5×8.0-22.6-10.5
CT-C02	100A	1:2000	0.1	10	Φ9.0-23-11
CT-C03	100A	1:2000	0.1	10	2.0×8.0-26.5-11
CT-C05	60A	1:2000	0.1	10	2.0×7.0-22.5-10.5
CT-Y01	12A	4:1200	0.1	10	30-30-23

**DC immune current transformers for electricity meter**




Part No.	Primary current I <sub>max</sub> (A)	Ratio (Turns)	Accuracy Class	Load (Ω)	Dimensions ID-OD-H (Unit: mm)
DCT-C06	60A	1:2500	0.1	10	Φ8.2-26.4-14.5
DCT-C07	80A	1:2500	0.1	10	Φ9.6-28-17
DCT-C08	200A	1:5000	0.1	10	Φ13-40-17.2
DCT-C09	120A	1:2500	0.1	10	Φ9.5-32-19
DCT-C10	100A	1:2500	0.1	10	2.0×8-29.8-17.8

**DC immune current transformers for electricity meter**



Part No.	Primary current I <sub>max</sub> (A)	Ratio (Turns)	Accuracy Class	Load (Ω)	Dimensions ID-OD-H (Unit: mm)
DCT-C11	80A	1:2500	0.1	10	2.0×8.0-28-17.8
DCT-C12	100A	1:2500	0.1	10	2.0×8.0-30-17.8
DCT-C13	120A	1:2500	0.1	10	2.5×10-32-18.5
DCT-P01	120A	1:2500	0.1	10	Φ13.5-38-14

**PCB mounting current transformers**



Part No.	Primary current I <sub>max</sub> (A)	Ratio (Turns)	Accuracy Class	Load (Ω)	Dimensions ID-OD-H (Unit: mm)
CT-P02	60A	1:2000	0.1	10	Φ7.8-23-11
CT-P03	100A	1:2000	0.1	10	Φ8.0-26-17
DCT-P04	80A	1:2500	0.1	10	Φ8.0-30-19
DCT-P05	100A	1:2500	0.1	10	2.3×8.0-31-20

**Split core current transformers**



Part No.	Primary current I <sub>max</sub> (A)	Secondary output	Accuracy Class	Load (Ω)	Dimensions ID-OD-H (Unit: mm)
KF-10	5-60A	0-50mV/0.333V	0.5/ 1.0		Φ10-25-26-40
KF-16	5-120A	0-120mV/0.333V	0.5/ 1.0		Φ16-30-32-40
KF-24	50-100A	5A/1A	0.5/ 1.0	1.5VA	Φ24-36-45-65
KF-36	100-300A	5A/1A	0.5/ 1.0	2.5VA	Φ36-42-58-86
KF-50	300-600A	5A/1A	0.5/ 1.0	3.75VA	Φ50-58-80-108