

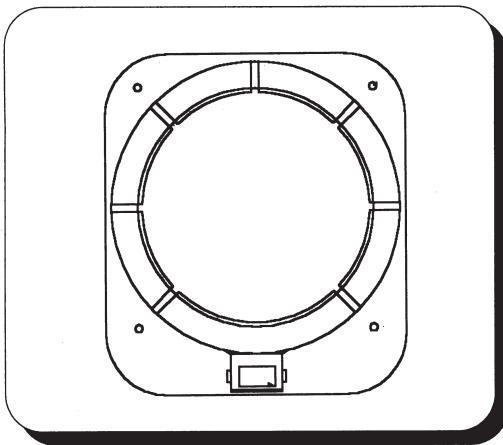


Generator Current Transformer for Large Indoor Apparatus

6,000:5 amperes through 50,000:5 amperes

Application

The **LRA-948** is a top quality rugged dry type unit for service in the most demanding generator applications. Whether Hydro, Gas Turbine, Nuclear, or Steam plant this unit meets all application requirements. Its board mounted design is ideal for multiple unit vertical mounting on generator output bushings or isolated phase bus. Windings are shielded from external flux of adjacent phases. **ITEC** is able to respond to your regular and **EMERGENCY**



outages with replacement CT's. Immediate response is available for meeting generator on-line schedules.

Fabrication

Construction starts with a toroidally wound core made of high permeability steel having low losses to optimize performance and physical size of the transformer. Windings insulated with high grade insulation are made of 100% copper wire with silver soldered terminations. All windings are distributed around the periphery of the core to achieve maximum mechanical and electrical performance. The fully insulated winding is board mounted to a glass reinforced insulating board which gives thermal, mechanical and electrical stability. The unit has 1/4-20 secondary stud connections in a terminal box with two conduit openings (1" NPT) and cover-plate for ease of installation.

Accuracy

The **LRA-948** is available with single ratio for a meter current transformer specifically designed to provide meter accuracy of 0.3@B0.1..B1.8 or relay accuracy of C800 and a unit rating factor of 1.0.

Testing

Every transformer is tested in accordance with IEEE STD C57.13 (Latest revision). Both meter and relay type accuracy transformers are checked for ratio accuracy at various stages of manufacture. Test comparisons are made with standards traceable to NIST to validate ratio accuracy performance for all CTs. For relay ("C" classification rating) CT performance is verified by excitation measurements.

Specification Requirements

When specifying a **LRA** the following information is needed for the design engineer to meet your needs:

1. Minimum ID, Maximum OD, Maximum Height.
2. Ratio.
3. Primary and Secondary current.
4. Accuracy and burden rating i.e.
Relay: C800, Meter: 0.3@B0.1..B1.8
5. Frequency.
6. Thermal review.
7. Mounting details with installation requirements.

Characteristic Curves

Performance characteristics can be provided as required. See other application information is on the reverse side of this data sheet.

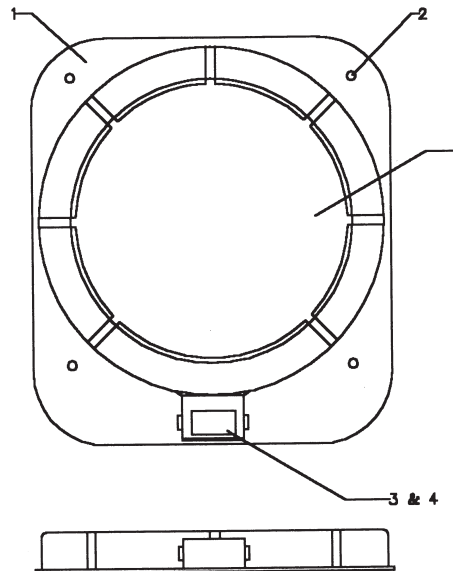
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Performance number selection table. You can select your generator CT by just circling the desired performance and mechanical options.

<u>I.D.</u>	<u>Winding Type</u>	<u>Primary Rating</u>	<u>Accuracy Type</u>	<u>Accuracy Rating</u>	<u>Thermal Rating</u>	<u>Operating Options</u>	<u>Mechanical Options</u>
12	S=Single	060= 6,000	C=Relay	400=C400	1=1	H = 60 HZ	00=Stand w/Flying leads
14	T=Tap	080= 8,000		800=C800		X = 50 HZ	01=Stand w/Term. box
16		100=10,000					02= TBD
18		120=12,000	M=Meter	305=0.3@B0.1..B0.5			03= TBD
20		140=14,000		309=0.3@B0.1..B0.9			04= TBD
22		160=16,000		318=0.3@B0.1..B1.8			
24		180=18,000					
26		200=20,000					
28		225=22,500					
		240=24,000					
		250=25,000					
		260=26,000					
		280=28,000					
		300=30,000					
		350=35,000					
		400=40,000					
		450=45,000					
		500=50,000					



Description

This information is subject to change without notice. Not responsible for typographical errors.

- | | |
|------------------------------------|--|
| 1. Board mounted winding assembly. | 4. Terminal box with 1/4-20 terminals. |
| 2. Mounting provisions. | 5. Window. |
| 3. Nameplate. | 6. Polarity mark. |

600-16 Top quality, Fast service, Custom work. Contact factory for latest information.

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