



GR TECH SERVICES

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BANGALORE

TRANSFORMER CONTROL PRODUCTS

FROM

PE SYSTEMS PVT. LTD., BANGALORE



Company Profile



- **P.E.Systems (P) Ltd.**, a registered SSI unit, was established in 1982 with a view to cater to the power electronic requirements of core industries. As a startup the company introduced Digital cable fault locators to locate faults in underground cables. The product had been well received by the industrial sector and many units are in operation.
- Continuing with its policy of identifying newer & greener pastures, Transformer OLTC Control Products were taken up. With a humble introduction of a Digital Tap Position Indicator in 1994, to day the company has the latest & most advanced transformer OLTC control products.
- A well equipped R&D with multidimensional knowledge on transformers is at the forefront in introducing latest technology based equipments at competitive prices. The core strength of R&D department lies in its capability to identify the transformer operational problems and to find a suitable solution to the problem. Dedicated production and service team ensures timely delivery with guaranteed technical back up service. The company engineers are trained effectively to interact with the customers to provide utmost customer satisfaction.



Company Profile



- **Quality is an integral part of the organization. Utmost emphasis is given to quality control right from component sourcing to final packaging and dispatch. The complete software development is carried out in house.**
- **Being situated in Silicon valley of India, the company has reach to highly skilled manpower, advanced R&D houses and accredited testing houses. PES has become synonymous with transformer control products.**

SHOP FLOOR - RTCC PANELS



SHOP FLOOR - ANOTHER VIEW





Product Range



- **TRANSFORMER OLTC CONTROL PRODUCTS**
 - **Tap Position Indicator**
 - Digital Tap Position Indicator
 - Microcontroller Based Tap Position Transmitter
 - **Automatic Voltage Regulating Relay**
 - **RTCC Panels**
 - Microcontroller Based Integrated RTCC Panels
 - Conventional RTCC Panel for Distribution and Power Transformer Application
 - **Cooler Control Cubicles**
 - **Winding Temperature Scanner**
- **TRANSFORMER TEST BENCH**



Product Range



- **DG CONTROL PRODUCTS**
 - DG AMF Panels
 - AMF Modules
 - Fuel Gauge
 - Engine Safety Unit (ESU)
 - Line Voltage Monitors (LVM)
- **WATER LEVEL MANAGEMENT**
 - Water Level Transmitter
 - LVDT based Systems
- **HOME AUTOMATION**
 - Automatic Source Changeover & Current Limiters
- **CABLE FAULT LOCATING EQUIPMENT**



Tap Position Indicator



- With SCADA Interface
 - RS485 Modbus Communication
 - 4-20 mA Output
- Tap Change Operation Counter
- Universal Power Supply 96V...220V AC/DC
- Field Programmable Maximum Tap position
- Display of HV Voltage corresponding to Tap Position
- Suitable for 1 K Ω / Tap





Automatic Voltage Regulating Relay AVR-102



- **Microcontroller Based**
- **Field Programmable Base & Dead Band Settings**
- **Dual Timing Features**
- **U/O Voltage & Control Failure Blocking**
- **Wide Operating Voltage Range**



Integrated RTCC Panel



- Microcontroller based compact wall mounting RTCC panel with provision for floor mounting.
- Built in Automatic Voltage Regulating Relay with Digital Tap Position Indicator.
- Site Selectable 110V / 433V PT Input supply.
- Selector Switch for Auto and Manual Operation.
- Detailed LED Illuminated Facia to indicate the OLTC Status
- Field Programmable Base & Dead Band Settings
- Optional Features
 - Alarm Annunciator
 - Parallel Operation
 - RS 232 / RS 485 Modbus Communication.



Conventional RTCC Panel



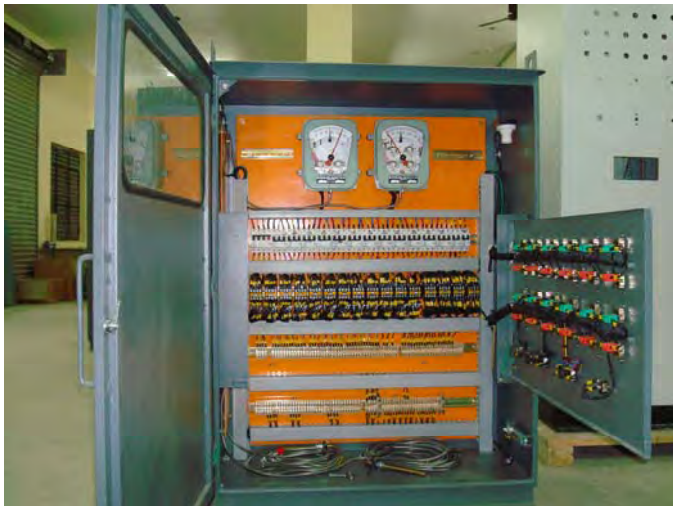
- **Auto / Manual Selection**
- **Group Selector Switch**
- **Alarm Annunciation**
- **WTI / OTI Repeaters**
- **Tap Position Transmitter**
- **Fan Control with Indications**
- **SCADA Interface**
- **IP 44 / IP 54 Protection Class**



Cooler Control Cabinet



- 4 Fans to 12 Fans control Schemes
- Programmable Main & Standby Fan Grouping
- Main Supply & Standby Supply Auto Changeover Scheme
- SCADA & RTCC Interface Schemes
- IP 55 / IP 65 Protection Class





TRANSFORMER PROTECTION RELAY (WINDING TEMPERATURE INDICATOR) MODEL: TPR 2000A



- Suitable for Dry Type & Resin Cast Transformers
- Microcontroller based 4 Channel system
- Programmable Fan/Alarm/Trip Levels
- Sensor Fault Indication
- SCADA Interface
 - RS485 Modbus
 - 4-20 mA Output



Technical Supports



- **PES can offer services in the following domains of RTCC & CCC**
 - **Detailed analysis of Customers Technical requirements**
 - » **OLTC Control Requirements**
 - » **Selection of Voltage Controller**
 - » **Selection of Repeaters & Digital Voltmeters**
 - » **Marshalling Box, CCC & RTCC Interface Schemes**
 - **Design Support**
 - » **GA Drawings**
 - » **Power Schematic Drawings**
 - » **Control Schematic Drawings**
 - » **Terminal Block Drawings**
 - » **Interface Drawings**
 - **Manufacturing, Testing & Commissioning of Panels**
 - **Interaction with Clients/ Consultants on a case to case basis**
 - **Technical Field Support**



Our Esteemed Customers



- M/s. Kirloskar Power Equipments Ltd., Pune
- M/s. Kirloskar Electric Co. Ltd., Mysore
- M/s. Universal Transformers, Bangalore / Haridwar
- M/s. Trinity Electrical Industries, Bangalore
- M/s. Intra vidyut, Bangalore
- M/s. Chetan Electric, Bangalore
- M/s. Kiran Power Electricals, Bangalore
- M/s. Transformers & Electricals, Ernakulam
- M/s. Kerala Electrical & Allied, Cochin
- M/s. Intrans Electro Components Pvt. Ltd., Kochi
- M/s. Argo Transformers Company, Mumbai
- M/s. Kanohar Electricals Ltd., Meerut
- M/s. Pan – Electro Technic Enterprises, Hyderabad
- M/s. Ramakrishna Electricals, Nagpur
- M/s. UttamBharath , Jaipur



For further Details, please feel free to contact us at

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Thank You...