

Simplified Transformer Advantage 3 Selector Guide

| DIVISION OF HUGHES CORPORATION | | | | | | |
|--|--|--|--|--|--|--|
| * | | ★ Monitor Temperatures on Oil-Filled Transformers ★ Control Cooling Fans & Pumps ★ Generate Alarms ★ Communicate Status and Data to SCADA Network | | | | |
| Footure | D | molit | How Ashieved | | | |
| Feature Digital Temperature Readout 10 | | enefit nalog accuracy, better reliability | How Achieved Platinum RTD, digital electronics, self diagnostics | | | |
| Flexible Cooling Control, Programmable Alarms | maxin | ved thermal management utilizes num transformer capacity & extend ormer life | Multiple sources, adjustable delays, hysteresis, timers, cooling readback, etc | | | |
| Digital Communication | Redu | ced maintenance cost | Data storage & remote monitoring | | | |
| Low Cost, Easy Installation | Fast p | bayback | NEMA 4X case, probes fit existing wells, replaces up to 4 analog gauges | | | |
| Magnetic RTD sensor* Thermowell RTD probe Thermowell RTD probe Sensor Installation: Magnetic RTD sensor* Sensor Thermowell RTD probe Sensor Thermowell RTD probe Sensor < | | | | | | |
| Electronic Temperature Monitor | Measurement Method | | | | | |
| CILIU Contractioner Contractio | Simulated Winding Temperature (heated well) | | Calculated Winding Temperature (winding current) | | | |
| New Transformer | | Available | Recommended | | | |
| Existing Transformer | | Recommended | Available | | | |
| | | Need calibrated thermowell heater | Need hot spot temperature rise from transformer test report | | | |
| Select Model to measure: | oturo | Advantage DC | Adventege CT | | | |
| Oil temperature + 1 winding temperature Oil temperature + 2 winding temperatures Oil temperature + 3 winding temperatures | | Advantage DC Advantage TC Advantage SC + Advantage TC | Advantage CT Advantage CT w/ 3-winding option Advantage CT w/ 3-winding option | | | |
| Oil + 1 winding + ambient temperature Oil + 3 windings + ambient temperature Oil + 1 winding + LTC temperature Oil + 3 windings + LTC temperature | | Advantage TC Advantage DC + Advantage TC Advantage TC | Advantage CTX Advantage CTX w/ 3-winding option Advantage CT/LTC Advantage CT/LTC w/ 3-winding option | | | |
| See data sheet for other combinations | | Ten Oil | Top Oil | | | |
| Oil Temperature + 1 Winding Temperature: | W te | Advantage DC Advantage DC Well Winding Imperature Use magnetic sensor for oil or LTC | Advantage CT Advantage CT Winding current * * Direct connect to winding CT is standard. | | | |

* Use magnetic sensor for oil or LTC temperature if thermowell not available. Select in RTD PROBES field of P/N. * * Direct connect to winding CT is standard. Use clamp-on transducer to sense winding current on existing transformers. Select in MISCELLANEOUS OPTIONS field of P/N. Each Weschler Transformer Advantage is built to order, as specified by a 15 digit part number. Use the following information and the configuration guide on the Advantage 3 data sheet to specify a unit for your exact requirements.

Setpoint Relays

for cooling control and alarms: choose 6 relays (code H) or 12 relays (code L). Relays are form C (change-over) with selectable non-alarm state (normal or fail-safe). The typical analog gauge has 2 or 4 setpoint switches.

Four switches in an oil gauge and four in a winding gauge can be replaced with six Advantage relays:

- cooling stage 1 (activate on oil or winding temp)
- cooling stage 2 (activate on oil or winding temp)
- oil temp alarm
- oil temp trip
- winding alarm
- winding trip

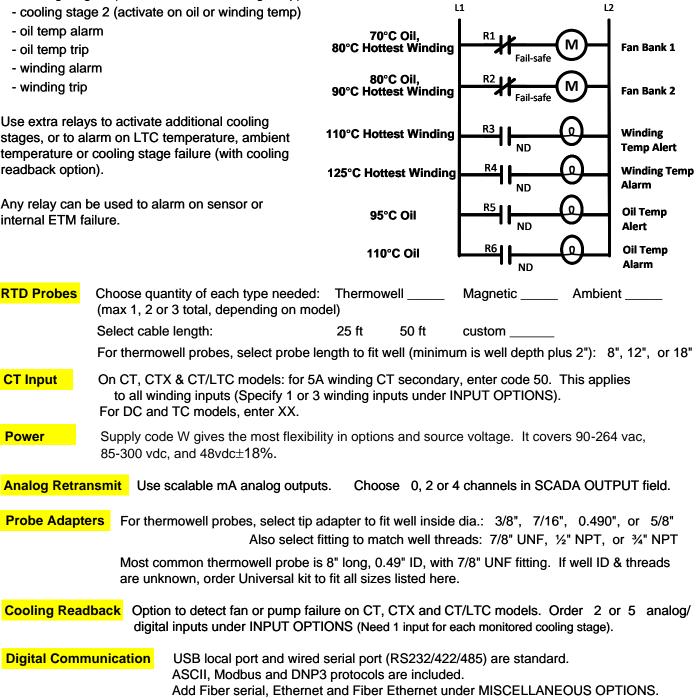
CT Input

Power

Use extra relays to activate additional cooling stages, or to alarm on LTC temperature, ambient temperature or cooling stage failure (with cooling readback option).

Any relay can be used to alarm on sensor or internal ETM failure.

Using Hottest Winding parameter, no additional relays are required to monitor three windings on CT, CTX and CT/LTC models :



For additional information on selection & configuration, see the Transformer Advantage 3 Data Sheet & Owners Manual (available from weschler.com), or call 440-238-2550 to speak to an Advantage applications specialist.

| W | г-о | 8c |
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| WESCHLER INSTRUMENTS | 440-238-2550 | sales@weschler.com |
|----------------------|-------------------|--------------------|
| Cleveland OH USA | fax: 440-238-0660 | www.weschler.com |