

# FLAMEPROOF DRY TYPE TRANSFORMERS

## PRODUCT BROCHURE

### OVERVIEW

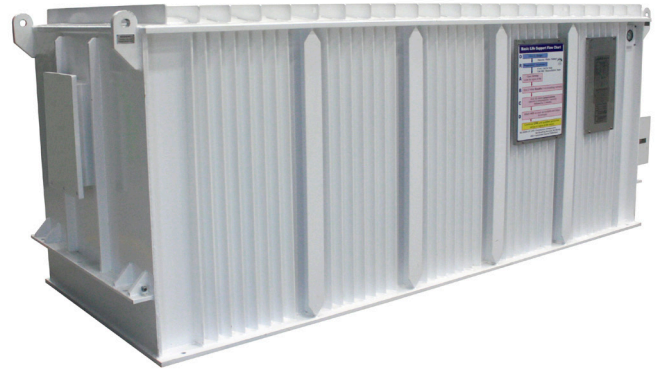
***Ampcontrol's flameproof distribution transformers are dry type units designed for underground coal mining applications.***

Supplied as part of power centre packages our dry type transformers are designed and manufactured to ensure maximum reliability and minimum maintenance requirements.

Using non-explosive nitrogen gas to suppress arc explosions these transformers significantly reduce the chance of fire and explosions underground.

The tank is hermetically sealed and positively pressurised to prevent moisture ingress, giving the unit a much longer operational life. Even when cooled or off-load, moisture ingress is nil. With moisture ingress eliminated, the life of the transformer is extended and monitoring of the internal gas pressure is the only requirement.

The key to optimum service life and high service reliability is the 220°C fully co-ordinated insulation system. The system ensures the insulating materials can withstand the heat generated by the core and coils.



### FEATURES

- 3 or 5 limb low height construction
- Spiral wound coil construction for gradient control
- A range of vector groups available
- Optional integrated temperature protection
- Impedance range as required

### PRODUCT DETAIL

- Primary voltage range: up to 11000V
- Secondary voltage range: 400V – 6600V
- Transformer rating: up to 8MVA
- Frequency: 50-60Hz
- Insulation: Class 220°C
- Cooling medium: Nitrogen
- Temperature rise: Winding: 150°C. Enclosure 100°C
- Tapping range +2.5% to -7.5%