



TR SETS CONTROLLER for Electrostatic Precipitators

61/32, T.T.K. Road, Alwarpet,
Chennai - 600 018, INDIA.
T : +91 44 24660888
F : +91 44 24988499
E-mail : nka@asplparts.com
web : www.asplparts.com



Air systems is an Air Pollution control Company specializing in Electrostatic Precipitator parts and their application in industrial processes to control particulate emission. The company offers wide range of services relating to precipitators including supply of internals, retrofitting, project management and supervision. Initially catering to the local Power, Cement & Steel Industries, Air Systems Ltd. has evolved into a world class, Pollution control equipment company, offering full service from supply of replacement parts to retrofit and repairs of air pollution equipments.

Over the years, Air Systems has established a proud reputation in the market, both locally and internationally, as a quality consious supplier of spares for different styles of Precipitators, especially to Power, Cement, Paper and Steel Sector.



ELECTROSTATIC PRECIPITATOR CONTROLLER (ESPC)

Electrostatic Precipitator Controller is a micro processor based digital programmable Electrostatic Precipitator's T/R set controller. This can be interfaced with any make of T/R set. It controls the ESP's current as per the preset value, maintaining the required DC voltage (kV) in precipitators. The controller generates digital pulse for Thyristor firing in such a way that it maintains the preset spark rate irrespective of Volume, Flow, Temperature and Chemical properties of gas. It receives the analog feedback of kV and mA from T/R set and convert it into digital data for processing by 8 bit A/D convertor. The ESPC receives the digital signal or on/off contact for other status like T/R oil temperature, AC current high etc. ESPC controls the Precipitator power by changing the ignition angle of the rectifier thyristor.



PRECIPITATOR CONTROLLER UPGRADE

Air System Controllers are advanced technology product and can be installed on any type of ESP's. We can also upgrade your, existing Controllers also ensuring that your investment cost is recovered within maximum of 2 years. With our controllers you will be able to save in ESP operating costs and also achieve highest efficiency and availability.

COST SAVINGS IN POWER CONSUMPTION

Air System Controllers also allows to ensure that precipitator operations does not draw excess power consumption, by achieving best possible stack opacity and then gradually reducing and readjusting power consumption. With usage of our controllers power saving could be as much as 30%.

EXPERT INSTALLATION SUPPORT

We also provide at nominal cost, the service of our experts both for installation and upgradation of ESP controllers. Our engineers if needed, may visit your site and install our controllers of latest design to your existing precipitator systems, with minimum modification and demonstrate its satisfactory functioning. You just need to provide name plate detail or technical specification of your already installed T/R sets & Controllers. Our experts will offer you best solutions.

The "Air system" Controller is a single chip microprocessor based system, which provides an effective automatic control of the high voltage T/R sets of Precipitators, by means of specific interventions in reaction to actual operational condition. Our revolutionary &LED display Controller has been designed for easy retrofit, simple operation, handling and maintenance. The Air Systems with its vast knowledge of manufacturing of ESP internals, has also specialized in designing systems such as Microprocessor based Controllers for Installation with Electrostate Precipitator T/R sets. The heart of any precipitator system is the Transformer/ Rectifiers. ESP controllers have important role to play in overall efficiency precipitators as well as T/R sets.

TECHNICAL SPECIFICATION

- Dimension : Width = 280 mm
- Cut-Out for Mounting : 255 mm X 175 mm
- Operating Temperature : 5-50 Deg.C
- Protection : IP 54
- Input Signal Filter Voltage (kV) : 0.4 mA corresponds to 100% of rated voltage
- Input Signal Filter current : 1.0 V corresponds to 100% of rated current (mA)
- Output Signal for Thyristor Firing : 2 nos. of opto-coupler NPN transistor of maximum 40 V and 30 mA
- Controller Supply Voltage : 24 V AC ±10%



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