



Total Process protection with Electronic '*Torque Overload Protection*'

The unique electronic circuitry within the ZENER ESP system monitors certain characteristics of the motor/gearbox to closely approximate the output torque of the drive system. Should the output torque of the motor/gearbox exceed the desirable preselected limit, for a pre-selected time, the ESP system will automatically disconnect the motor from it's electrical supply, ensuring complete protection for the entire process.



$\sqrt{\text{Suitable for Single Phase & 3 Phase Motors}}$

• The ESP is designed for single phase or three phase motors of any size.

$\sqrt{More Accurate maximum Torque Protection}$

- Adjustable 'Overload Trip Point' can be accurately set to any desired level from 0-150% of motor/gearbox full load torque, ensuring reliable process protection every time.
- Does not rely on the total motor current only. The ESP's superior electronics accurately monitor a selection of motor/gearbox characteristics to determine the torque output of the drive system.
- The Zener ESP incorporates an adjustable 'Motor Start Time' to enable the motor/gearbox to reach full running speed without nuisance tripping.
- An adjustable 'Trip Time Delay' is provided to eliminate nuisance tripping during momentary overloads when automatic shutdown is not required.



$\sqrt{}$ Easier to install

- The ESP's simple wiring requirements makes the Zener ESP system easy to install in new or existing equipment.
- An internal test signal is provided for easy and quick calibration of the ESP 'Overload Trip Point', 'Motor Start Time' and 'Trip Time Delay' periods and subsequent testing of System operation.
- The ESP can be supplied on a baseplate complete with C.T.

$\sqrt{No Maintenance requirements}$

- The Zener ESP eliminates lengthy and costly mechanical repairs or process downtime due to overload/ over torque damage.
- The ESP's highly reliable electronic componentry requires no regular maintenance schedule or down time for inspection.

$\sqrt{\text{Convenient, Efficient & Safe}}$

- The Zener ESP can be instantly reset at the push of a button, no process downtime for mechanical repairs.
- The ESP can be adjusted at any time without stopping the machine.
- Operation safety is assured when resetting the ESP after an automatic shut-down as the motor requires re-starting from its independent control system.
- The ESP's operation can be tested at any time whilst the motor is operating or stationary.
- LED's provide indication of internal functions and to assist with the calibration of operating parameters.

ESP Selection	Part No.
ESP-1 Modul e Onl y	B032123
ESP-1 on Base Plate (excl CT)	B032130
C.T Selecti on	Part No.
Z701 Transformer	G00 001 3
CT 50/5A	G008002
CT 75/5A	G008003
CT 100/5A	G008004
CT 150/5A	G008005
CT 200/5A	G008006
Refer to instruction manual for details of CT	reauired.

Refer to instruction manual for details of CT required.

Australian Designed & Manufactured