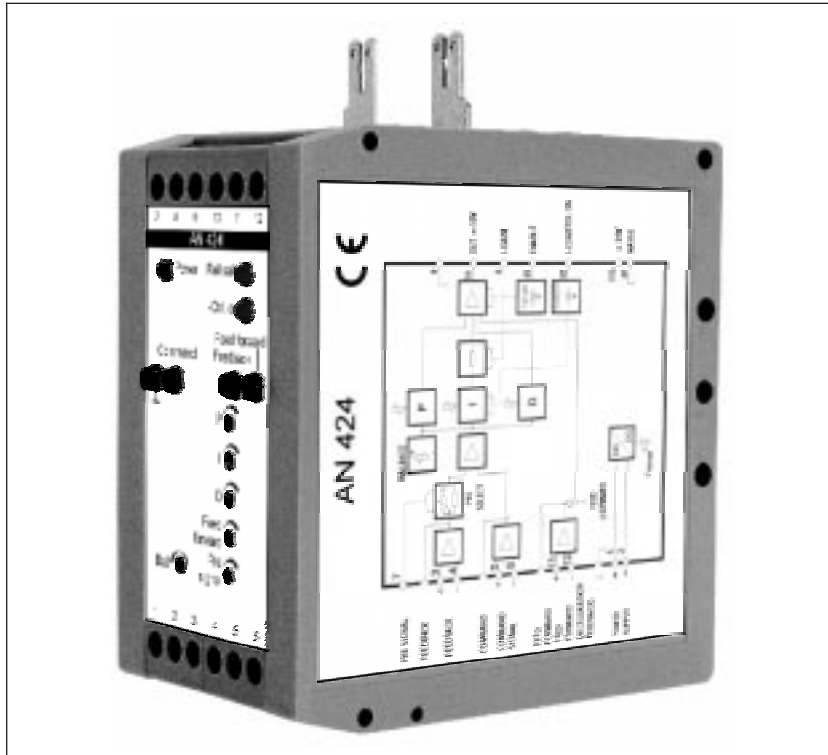# AN424 PID Controller Module

This PID controller module has been developed to meet the continuous demand for analog controller units in an easy-to-handle modular form.
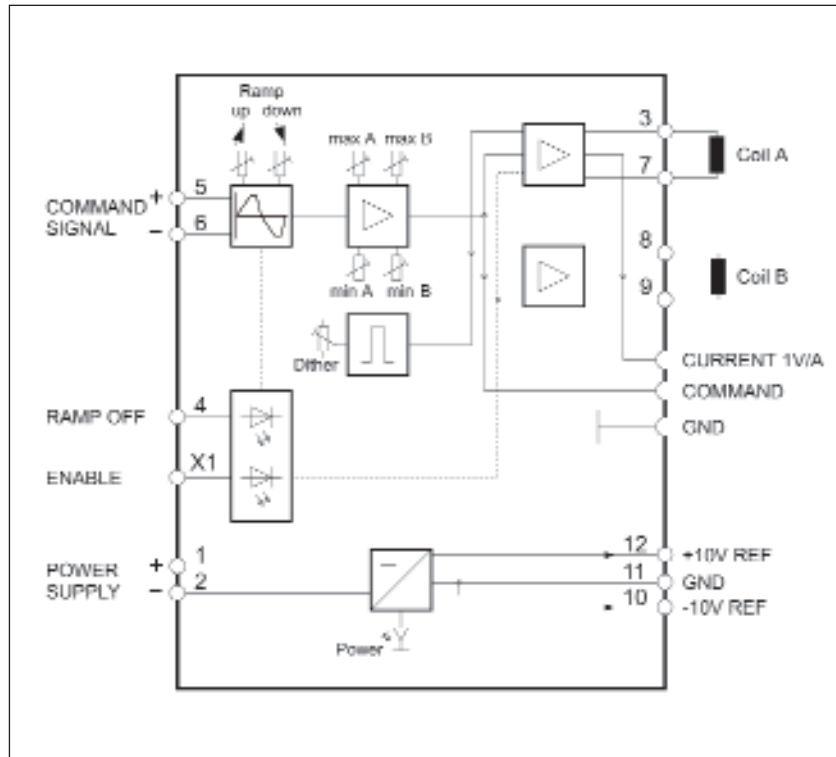
The facility for adjustment of both the P, I and D components and a value in each case for "Feed-forward", "Pre-signal" and "Balance" gives the user extensive potentials for intervention to achieve optimum setting. Evaluation of a large range of input signals of the most diverse types permits adaptation to pre-existing conditions.

The module's snap-on housing permits installation on standard rails in control cabinets. Electrical connection is via the built-in terminal strip and four flat-connector contacts (Enable input, Controller ON, +24V and Ground).

AN424 PID Controller Module

Technical data:

Supply voltage:	24V DC (22 to 32V DC)
Output signal:	±10V
Target-value ("setpoint") input:	The following input modules are available: ±10V (diff. input) 12±8mA (diff. input, monitored) ±20mA (diff. input)
Actual-value input:	The following input modules are available: ±10V (diff. input) 12±8mA (diff. input, monitored) ±20mA (diff. input)
Pilot speed control:	The following input modules are available: ±10V (diff. input) 12±8mA (diff. input, monitored) ±20mA (diff. input)
Enable:	Input +24V, LED display "Failsafe"
Controller enable:	Input +24V, LED display, "Ctrl. on"
Measuring sockets:	CommandSetpointSignal (±10V) FeedbackActualValueSignal (±10V) Feed-forwardPresignal (±10V)
Multi-turn resistances:	P: Adjustment of P component I: Adjustment of I component D: Adjustment of D component Feed forward: Adjustment of pilot speed control Pre-signal: Adjustment of derivative action Balance: Zero-point correction
Temperature range:	0 to 50° C