

With CANopen and extended environment capabilities

Advanced Motion Controls introduced six additions to the Flexpro servo drive series with extended environment capabilities. CANopen connectivity is available on request.

□

The products come with torque, velocity, and position operating modes (Source: Advanced Motion Controls)

The six additions include three extended environment Flexpro PCB-mount drives (denoted FXE) and three Flexpro machine-embedded drives (FXM). According to the company, the micro-sized drives can be integrated into tight spaces. In addition, conformal coating, copper pins, and reinforced architecture allow these drives to operate in extreme environmental conditions. The FXE drives measure 38 mm x 25 mm x 16 mm while the FXM variants measure 51 mm x 25 mm x 26 mm. The products come with 10 V_{DC} to 55 V_{DC} input and an ambient operating temperature range of -40 °C to +95 °C.

□

The servo drives are designed to withstand extreme temperatures, high and low pressures, shocks, vibrations, humidity, dust, dirt, and contamination (Source: Advanced Motion Controls)

Additionally, they are thermal shock resistant for -40°C to +95°C within 3 min and can handle vibrations up to 25 Grms for 5 min. in 3 axes. The drives provide Ethercat connectivity in general but offer CANopen on request. Other features of the drives are: Incremental encoder and Biss C-mode feedback, configuration and full loop tuning, resistant to contamination up to pollution degree 2, operation in 0 % to 95 % non-condensing relative humidity, as well as operation in altitudes from -400 m to +25 000 m.

The size of the drives makes them suitable for cobots (collaborative robots), automated guided vehicles, portable devices, lab and warehouse automation, military equipment, and other integrated design. The extended environment versions further expand their utility into harsh environments like the scorching desert, the open ocean, the edges of space, and the battlefield. The company's Impact (integrated motion platform and control technology) architecture allows the servo drives to maintain the power of larger-sized servo drives while fitting into compact packages, explained the company.

The drives FXE060-5-EM and FXM060-5-EM come with 5-A continuous and 10-A peak. The drives FXE060-10-EM and FXM060-10-EM10-A come with 10-A continuous and 20-A peak and the series FXE060-25-EM and FXM060-25-EM provide 25-A continuous and 50-A peak.

[CW](#)