Keypads

Unidrive M's range of keypad options is hot-swappable and is designed to enhance ease of use. From easy commissioning to rapid diagnostics, enhanced usability is achieved by a range of keypad options including plain text LCD display, support of multiple languages and flexible mounting options.

Type		Benefit	M100	M200	M300	M400	M600	M700
Fixed LED keypad		Simple LED keypad fitted as standard for quick and easy commissioning and use.	•	•	•			
Fixed LED keypad with speed reference potentiometer		Simple LED keypad with user friendly speed reference potentiometer for convenient speed control.	M101	M201				
CI-Keypad		Intuitive plain text, multi-language LCD keypad for rapid set-up and superior diagnostics maximizes machine up-time.				•		
Remote keypad		All the features of the CI-Keypad LCD, but remote mountable. This allows flexible mounting on the outside of a panel and meets IP66 (NEMA 4).		•	•	•	•	•
KI-Keypad		Plain text, multi-language LCD keypad with up to four lines of text for in-depth parameter and data descriptions, for an enhanced user experience.					•	•
KI-Keypad RTC		All the features of the KI-Keypad, but with battery operated real-time clock. This allows accurate time stamping of events, aiding diagnostics.					•	•

Drive interface units

Back-up

AI-Back-up Adaptor

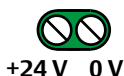|	M100	M200	M300	M400	M600	M700
	✓	✓	✓	✓		

Port adaptor that allows the drive to use an SD card for parameter cloning, and an input for 24 V back-up.

SD card

Unidrive M uses readily available SD cards for quick and easy parameter and program storage. SD cards provide a large memory capability allowing a complete system reload if required.

24 Vdc supply

+24 V   0 V

The 24 Vdc supply connected to the +24 V supply terminals on the AI-Back-up Adaptor and Smart Adaptor provides the following functions:

- Back-up power supply to keep the control circuits of the drive powered-up when the line power supply is removed. Fieldbus modules and serial communications can continue to operate.
- Clone or load parameters when the line power supply is not available. The keypad can be used to set-up parameters.

KEYPADS

AI-Smart Adaptor

	M100	M200	M300	M400	M600	M700
	✓	✓	✓	✓		

Contains built-in 4 GB memory for parameter cloning and applications programs, and an input for 24 V back-up

Smartcard

	M100	M200	M300	M400	M600	M700
					✓	✓

The optional Smartcard memory device can be used to back-up parameter sets and PLC programs, as well as copying them from one drive to another, including from a Unidrive SP. It also allows:

- Simplified drive maintenance and commissioning
- Quick set-up for sequential build of machines
- Upgrades to be stored on a Smartcard and sent to the customer for installation

SD-Smartcard Adaptor

	M100	M200	M300	M400	M600	M700
					✓	✓

Conversion device that allows an SD card to be inserted into the Smartcard slot, for parameter cloning and application programs.

Communications

AI-485 Adaptor

	M100	M200	M300	M400	M600	M700
		✓	✓	✓		

Adaptor that allows the drive to communicate via RS485 using Modbus RTU can be used to connect remote keypad.

Terminal descriptions

PL2

PL2	
Terminal	Function
1	0V
2	RX\ TX\
3	RX TX
4	120 Ω termination resistor
5	TX Enable
6	+24 V (100 mA)

PL1

PL1	
Terminal	Function
1	120 Ω Termination resistor
2	RX TX
3	0V
4	+24 V (100 mA)
5	Not connected
6	TX enable
7	RX\ TX\
8	RX\ TX\ (if termination resistors are required, link to pin 1)

CI-485 Adaptor

	M100	M200	M300	M400	M600	M700
				✓		

Port adaptor that allows the drive to communicate via RS485 on Modbus RTU. This can be used to connect the Remote keypad.

KI-485 Adaptor

	M100	M200	M300	M400	M600	M700
					✓	✓

Allows the drive to communicate via RS485 on Modbus RTU. This is commonly used for programming if the drive has no keypad and is recommended for use with the Remote keypad.

CT USB Comms cable

The USB Comms cable allows the drive to connect to a PC for use with Unidrive M's PC tools

DRIVE INTERFACE UNITS