

**Operator, LCD Digital Remote, NEMA Type 1.** This option allows the drive to be operated from a remote location, and provides a 16-character, 5-line alpha-numeric LCD. This option requires Installation Set A (EZZ020642A) for panel or door mounting and Remote Operator Cable (UWR0051 or UWR0052), each sold separately.

**Note:** This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

**Model No. JVOP-180**

**Operator, LED Digital Remote, NEMA Type 1.** This option allows the drive to be operated from a remote location. This option requires Installation Set A (EZZ020642A) for panel or door mounting and Remote Operator Cable (UWR0051 or UWR0052), each sold separately.

**Note:** This option requires the V1000 drive to contain 1016 software or later; please consult your Yaskawa representative to ensure proper operation.

**Model No. JVOP-182**

**LCD/LED Keypad Installation Set A (Remote Operator Mounting Bracket Kit).** This is a bracket to which the LCD Digital Remote Operator (JVOP-180) attaches, and has (4) threaded holes and screws to attach to the cover of an enclosure. The kit contains (2) screws to mount the Operator to the bracket and (4) screws to attach the bracket to the enclosure.

**Model No. EZZ020642A**

**LCD/LED Keypad Installation Set B (Remote Operator Mounting Bracket Kit).** Contains a similar bracket that the keypad attaches to and has non-threaded holes for mounting to an enclosure that has the screws attached to the enclosure already. The kit contains (2) screws to mount the keypad to the bracket and (4) nuts to attach the bracket to the customer supplied screws attached to the enclosure.

**Model No. EZZ020642B**

**Operator Cable, Remote.** These cables are used to connect the Remote LCD Digital Operator (JVOP-180) or Remote LED Operator (JVOP-182). They are available in one (1) or three (3) meter lengths.

**Model No. UWR0051 (1 meter)**

**Model No. UWR0052 (3 meter)**

**Operator Kits, NEMA Type 3R/4X.** This option is used to extend an LCD or LED Digital Remote Operator to the wall of a separately priced, oversized UL Type 3R, 4, 4X, or 12 enclosure (IPX6 environment). Price includes a faceplate bezel with digital operator brackets and membrane to cover the operator cutout in the enclosure door, a 3-foot cable, a 10-foot cable, and a 1:1 template for cutting the necessary cutouts in the enclosure. Keypad can be removed after kit installation. Designed for use with the LCD Operator JVOP-180 or the LED Operator JVOP-182 sold separately. Connects to RJ45 port and mounts to enclosure wall.

**Model No. UUX000526 (Blank Membrane)**

**Model No. UUX000527 (Yaskawa Logo Membrane)**

**DriveWizard Plus Software.** This optional software package allows upload and download of parameters via PC for data storage and for programming multiple drives. The software also includes graphing and monitoring tools. It is a Windows-based program designed to make startup, commissioning, and troubleshooting of the J1000 as simple as possible. Refer to our website at [www.yaskawa.com](http://www.yaskawa.com) to download the software, and for more information, including minimum system requirements and cable information to interface a PC to V1000 or J1000 drives.

**No Model No.**

**PC Interface Cable.** This 6-foot cable interconnects the drive keypad port to the 9-pin communication port on a PC. This cable is used in conjunction with DriveWizard Plus software.

**Model No. UWR00468-2**

**USB Copy Unit (Y-Stick).** This option allows the drive to connect to the USB port on a PC. It can read, copy and verify drive parameter settings from one drive to another like drive. The unit plugs into the RJ-45 port on the front of the digital operator. Refer to our website at [www.yaskawa.com](http://www.yaskawa.com) to download the software.

**Model No. JVOP-181**

**CopyUnitManager Software for USB Copy Unit (Y-Stick).** This option allows the user to transfer and save parameter files from the Copy Unit (JVOP-181), sold separately, to a PC and vice versa. Refer to our website at [www.yaskawa.com](http://www.yaskawa.com) to download the software.

**No Model No.**

**120 VAC Interface.** This option mounts directly to the control terminal block on the drive and allows the use of 120 VAC control logic circuits to produce multi-function control input signals for the drive.

**Model No. DI-100**

**DriveWorksEZ (DWEZ) Standard and Pro.** A software system that provides the means to create custom drive functionality in the V1000 using function block programming to distribute control away from a PLC.

DWEZ Standard can be downloaded from [www.yaskawa.com](http://www.yaskawa.com) with a valid partner login. DWEZ Pro requires attending a factory training class - see below for details.

**DriveWorksEZ (DWEZ) Standard.** The V1000 provides for 118 basic function blocks and up to 20 block connections. Available via web download only.

**Valid [www.yaskawa.com](http://www.yaskawa.com) Partner Login required**

**DriveWorksEZ (DWEZ) Pro Certification.** A two-day DWEZ-specific training class (TRM020-DriveWorksEZ) must be attended to become certified. This class is intended for those well-versed in V1000 programming. DWEZ Pro provides increased functionality, with 50 connections and 225 function blocks compared to the Standard version.

**Model No. CD.DWEZ.03**

*To enroll in class, call Technical Training Services at 847-887-7228.*

**Operator, LCD Digital Remote, NEMA Type 1.** This option allows the drive to be programmed before installation from a remote location, and provides a 16-character, 5-line alpha-numeric LCD. This option requires Remote Operator Cable (UWR0051 or UWR0052), sold separately.

**Note:** This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

**Model No. JVOP-180**

**Operator Cable, Remote.** These cables are used to connect the Remote LCD Digital Operator (JVOP-180). They are available in one (1) or three (3) meter lengths.

**Model No. UWR0051 (1 meter)**

**Model No. UWR0052 (3 meter)**

**Operator Kits, NEMA Type 3R/4X.** This option is used to extend an LCD Digital Remote Operator to the wall of a separately priced, oversized UL Type 3R, 4, 4X, or 12 enclosure (IPX6 environment). Price includes a faceplate bezel with digital operator brackets and membrane to cover the operator cutout in the enclosure door, a 3-foot cable, a 10-foot cable, and a 1:1 template for cutting the necessary cutouts in the enclosure. Keypad can be removed after kit installation. Designed for use with the LCD Operator JVOP-180 sold separately. Connects to RJ45 port and mounts to enclosure wall.

**Model No. UUX000526 (Blank Membrane)**

**Model No. UUX000527 (Yaskawa Logo Membrane)**

**DriveWizard Plus Software.** This optional software package allows upload and download of parameters via PC for data storage and for programming multiple drives. The software also includes graphing and monitoring tools. It is a Windows-based program designed to make startup, commissioning, and troubleshooting of the J1000 as simple as possible. Refer to our website at [www.yaskawa.com](http://www.yaskawa.com) to download the software, and for more information, including minimum system requirements and cable information to interface a PC to V1000 or J1000 drives.

**No Model No.**

**PC Interface Cable.** This 6-foot cable interconnects the drive keypad port to the 9-pin communication port on a PC. This cable is used in conjunction with DriveWizard Plus software.

**Model No. UWR00468-2**

**USB Copy Unit (Y-Stick).** This option allows the drive to connect to the USB port on a PC. It can read, copy and verify drive parameter settings from one drive to another like drive. The unit plugs into the RJ-45 port on the front of the digital operator. Refer to our website at [www.yaskawa.com](http://www.yaskawa.com) to download the software.

**Model No. JVOP-181**

**CopyUnitManager Software for USB Copy Unit (Y-Stick).** This option allows the user to transfer and save parameter files from the Copy Unit (JVOP-181), sold separately, to a PC and vice versa. Refer to our website at [www.yaskawa.com](http://www.yaskawa.com) to download the software.

**No Model No.**

**120 VAC Interface.** This option mounts directly to the control terminal block on the drive and allows the use of 120 VAC control logic circuits to produce multi-function control input signals for the drive.

**Model No. DI-100**

**DriveWorksEZ (DWEZ) Standard and Pro.** A software system that provides the means to create custom drive functionality in the V1000 using function block programming to distribute control away from a PLC. Must attend one of the two classes below to obtain software CD.

**DriveWorksEZ (DWEZ) Standard Certification.** A 3-day V1000 Application Programming training class (TRM010-V1000) must be attended to become certified. Provides 20 connections and 119 basic functions.

**Model No. CD.DWEZ.02**

**DriveWorksEZ (DWEZ) Pro Certification.** A 2-day DWEZ-specific training class (TRM020-DriveWorksEZ) must be attended to become certified. This class is intended for those well-versed in V1000 programming. DWEZ Pro provides increased functionality, with 50 connections and 225 function blocks compared to the Standard version.

**Model No. CD.DWEZ.03**

*To enroll in class, call Technical Training Services at 847-887-7228.*