

DownLoad Module™ (DLM)

Model DLM-1000, Part No. 14145

Uploads, Downloads and
Stores Programs to and from the
KBE2, KBN2, KBV2, KBVF* and KBAC*
Adjustable Frequency Drives and Drive-Link™



DownLoad Module™
(Part No. 14145)

STANDARD FEATURES

- 10 Program Storage Capacity
- No Separate Power Supply or Battery Required
- Can be Handheld or Permanently Mounted
- Non-Volatile Memory
- Simple to Operate
- Configurable Communication Settings
- Can be Used Independently or with a PC

LED STATUS INDICATORS

- **Program Drive to DLM** – Provides status of data transfer from the drive to the DLM.
- **Program DLM to Drive** – Provides status of data transfer from the DLM to the drive.
- **PC (PWR/T/R)** – Provides status of power, signal transmit and receive from the DLM to the PC.
- **Drive (PWR/T/R)** – Provides status of power, signal transmit and receive from the DLM to the Drive.

SWITCH SELECTABLE FEATURES

- **Drive Switch** – Sets Communication with the DLM and KBE2, KBN2, KBV2, KBVF* or KBAC* Adjustable Frequency Drives.
- **Connection Switch** – Selects the type of data transfer.
- **Program No. Switch** – Selects up to 10 different programs.

COMMUNICATION AND SETUP JUMPERS

- **J1:** PC to DLM Baud Rate (4800, **9600**, 19200, 38400)
- **J2:** PC to DLM Data Bits (7, **8**)
- **J3:** PC to DLM Parity (**Even**, Odd, None)
- **J4:** PC to DLM Stop Bits (**1**, 2)
- **J5:** Drive to DLM Baud Rate (4800, **9600**, 19200, 38400)
- **J6:** Drive to DLM Data Bits (7, **8**)
- **J7:** Drive to DLM Parity (**Even**, Odd, None)
- **J8:** Drive to DLM Stop Bits (**1**, 2)
- **J9:** Enables or Disables the Programming LEDs (**On**, Off)
- **J10:** Default or Manual Setup for Selected Drive (**Default**, Manual)

(Bold Print Indicates Factory Setting)

* Version "2G" and above, use KBV2 Position

DESCRIPTION

The DownLoad Module™ (DLM) is designed to store and transfer up to 10 programs for the KBE2, KBN2, KBV2, KBVF* and KBAC* Adjustable Frequency Drives. A program consists of an entire set of drive functions. The DLM can be used to program individual or multiple drives and because it is powered from the PC or the drive, it does not require a separate power supply or battery. Optional Drive-Link™ Software allows the DLM to be programmed from a PC running Windows® 95/98/2000/ME/XP/NT. The DLM can be used as a handheld device or permanently mounted.

The DLM is easy to operate. The "Drive" Switch sets the drive which will be connected to the DLM. The "Program No." Switch selects up to 10 program storage locations. The "Connection" Switch sets the DLM mode of operation. Push buttons are used to initiate data transfer.

The DLM has three modes of operation. In "PC to DLM to Drive Mode", the DLM is used as an interface between Drive-Link™ and the drive. In "PC to DLM Mode", the DLM is programmed from Drive-Link™. In "DLM to Drive Mode", the DLM is programmed from a drive and the program can be transferred to other drives. In addition, a program stored in the DLM can be transferred to the Drive-Link™ program.

LED Status Indicators provide cable connection status (power) and data transfer status (transmit, receive). Connection from the DLM to the drive is made with the optional DLM to drive cable. Connection from the DLM to the PC is made with a standard DB-9 Serial cable.

The DLM is factory set for optimum communication performance for all of the drives. The Setup Jumpers are easily accessible by removing the slide cover. They allow communication settings (baud rate, data bits, stop bits, parity), default or manual jumper settings, and power saving mode (enables or disables the program LEDs). To tailor the DLM for a specific communication requirement, set Jumper J10 to the "MAN" position and set the other jumpers to the desired setting.

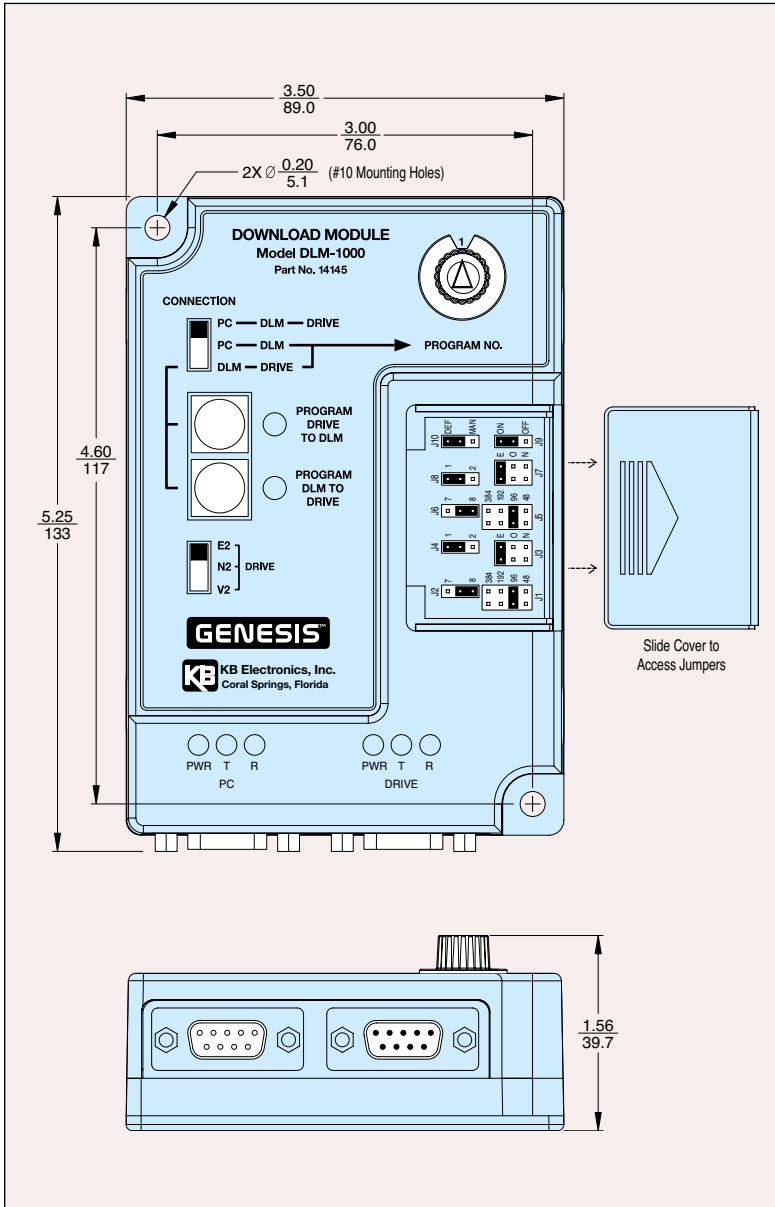
OPTIONAL ACCESSORIES

- DLM to KBE2 Communication Cable (Part No. 14147)
- DLM to KBN2 Communication Cable (Part No. 14152)
- DLM to KBV2 Communication Cable (Part No. 14155)
- DLM to KBVF* and KBAC* Communication Cable (Part No. 14148)
- Drive-Link Software with PC to DLM Serial Port Communication Cable (Part No. 14165)
- Drive-Link Software with PC to DLM USB Port Communication Cable (Part No. 14166)

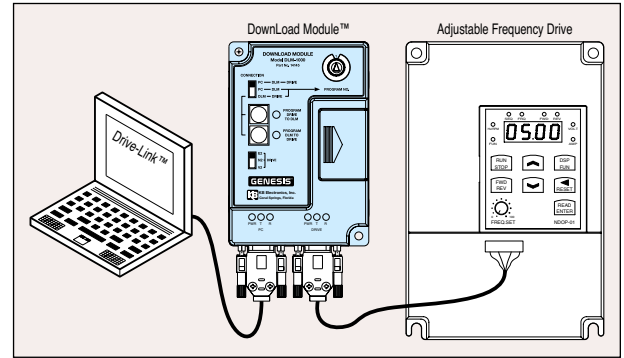
GENESIS™

Automation and Control

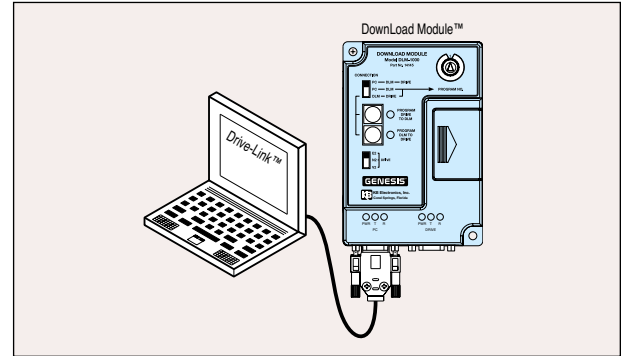
MECHANICAL SPECIFICATIONS (Inches / mm)



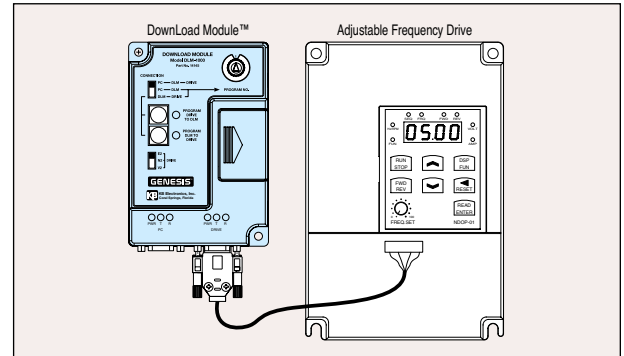
PC TO DLM TO DRIVE CONNECTION



PC TO DLM CONNECTION



DLM TO DRIVE CONNECTION



STATUS INDICATORS

	LED	LED Color/Sequence	Status
Push Buttons	Program Drive to DLM	Red / Yellow / Green	The LED will flash Red / Yellow / Green when the "Program Drive to DLM" button is pressed. Red Indicates that data transfer from the drive to the DLM has been initiated. Yellow Indicates that the data transfer operation is complete. Green indicates that the DLM has been successfully programmed with the drive settings.
	Program DLM to Drive	Red / Green	The LED will flash Red / Green when the "Program DLM to Drive" button is pressed. Red indicates that data transfer from the DLM to the drive has been initiated. Green indicates that the drive has been successfully programmed with the DLM settings.
PC Cable	PWR	Green	Indicates that the cable is connected from the DLM to the PC.
	T	Green	Indicates that data is being transmitted from the DLM to Drive-Link™.
	R	Green	Indicates that data is being received by the DLM from Drive-Link™.
Drive Cable	PWR	Green	Indicates that the cable is connected from the DLM to the Drive.
	T	Green	Indicates that data is being transmitted from the DLM to drive.
	R	Green	Indicates that data is being received by the DLM from the drive.



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