

Display Modules DIS10, DIS11 and DIS12



DIS10, DIS11 and DIS12 comprise a series of intelligent 5½-digit display modules which can be connected to JVL motor controllers equipped with register sets and a module interface (SMC23, SMC24 and SMC30).

The Module is controlled by the Controller so that the Controller program can display numeric values on the Module display. Values of between 0 and 65535 can be displayed.

The Display Module is available in the following 3 models:

DIS10: Module without cabinet and front glass for fitting into own system panel.

DIS11: 1 Module with cabinet and anti-reflection front glass. (72 x 36mm)

DIS12: 2 Modules built into a common cabinet with anti-reflection front glass. (72 x 72mm)

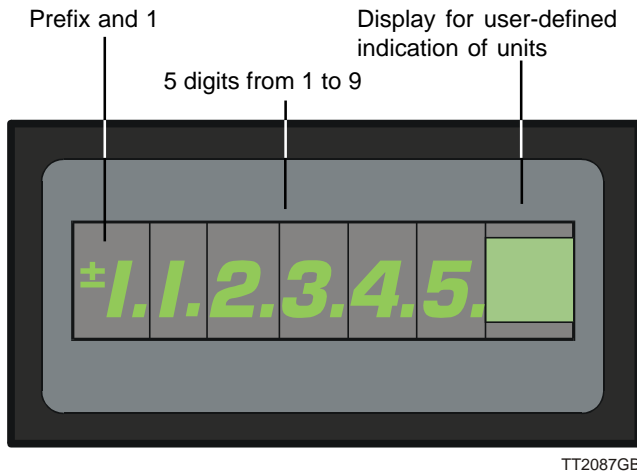
- High-intensity LED display
- Connection of overall Controller via built-in RS485 interface (galvanically isolated) using simple 2-core cable - enables long communication lines
- Protected against voltage overload and incorrect polarity connection
- Facility for connecting several Controllers to the same Display Module, i.e. 1 display can show data from several Controllers

- Facility for connecting other types of Module to the system interface, including Multi-Counter Module type CMO10, Input/Output Module IOM11 and Keyboard/Display Module type KDM10D/T
- Up to 31 units can be connected to the same interface bus
- Non-critical power supply, 12-45 VDC

Display Modules DIS10, DIS11 and DIS12

Display Front Panel

The Display Modules use a 5½-digit high-intensity display with an additional unit in which the user can insert a film to show the measurement units. The display is mounted beneath an anti-reflection, toned glass which ensures readability over a very wide field of viewing.



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Technical Data

	Min.	Typ.	Max.	Units
Power Supply:				
Supply voltage	12		45	VDC
Power Consumption		1.3	2.5	W
Module Interface (RS485):				
Communication rate		50		kbit/s
Communication length			100	m
Various:				
Operating Temperature	0		50	°C
Dimensions - DIS10 (ex. con)		111x62x18		mm
Dimensions - DIS11		112x72x36		mm
Dimensions - DIS12		112x72x72		mm

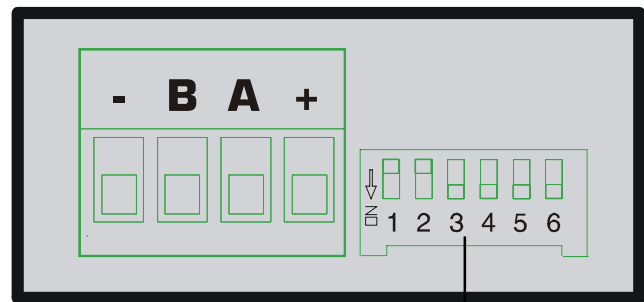
Display Connections and Address

+ and - Power Supply +12 - 45V

The + and - terminals are optically isolated from the interface terminals A and B to achieve high noise immunity. The power supply is non-critical and protected against voltage overload and supply transients.

A and B Interface Connection

The Interface connection uses a simple, 2-core "twisted pair" cable, with lengths of up to 100 m. Up to 31 modules (Display, Keyboard/Display, Multi-Counter or Input/Output Modules) and at least one Controller can be connected to the same interface bus.



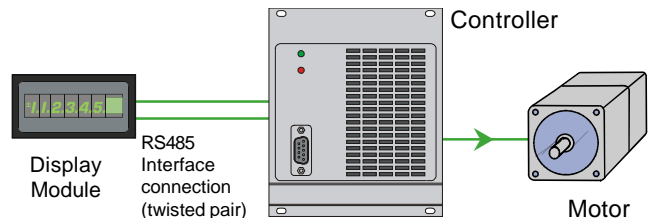
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Address Switch

(for setting the address of each Display Module. Each Module must be assigned its own unique address)

System Configuration

Display Modules DIS10, DIS11 and DIS12 are used in motor control systems to display the values stored in a Controller's registers. This provides the facility for displaying operating parameters, positions, doses, velocities, etc., and thus give an operator information on whether a machine is operating correctly. A display unit can show data from several different Controllers on the same interface bus. Similarly several displays can be included in a system by assigning each a unique address.



JVL Industri Elektronik A/S
 Blokken 42
 DK-3460 Birkerød, Denmark
 Tel: +45 4582 4440
 Fax: +45 4582 5550
 E-mail: jvl@jvl.dk www.jvl.dk