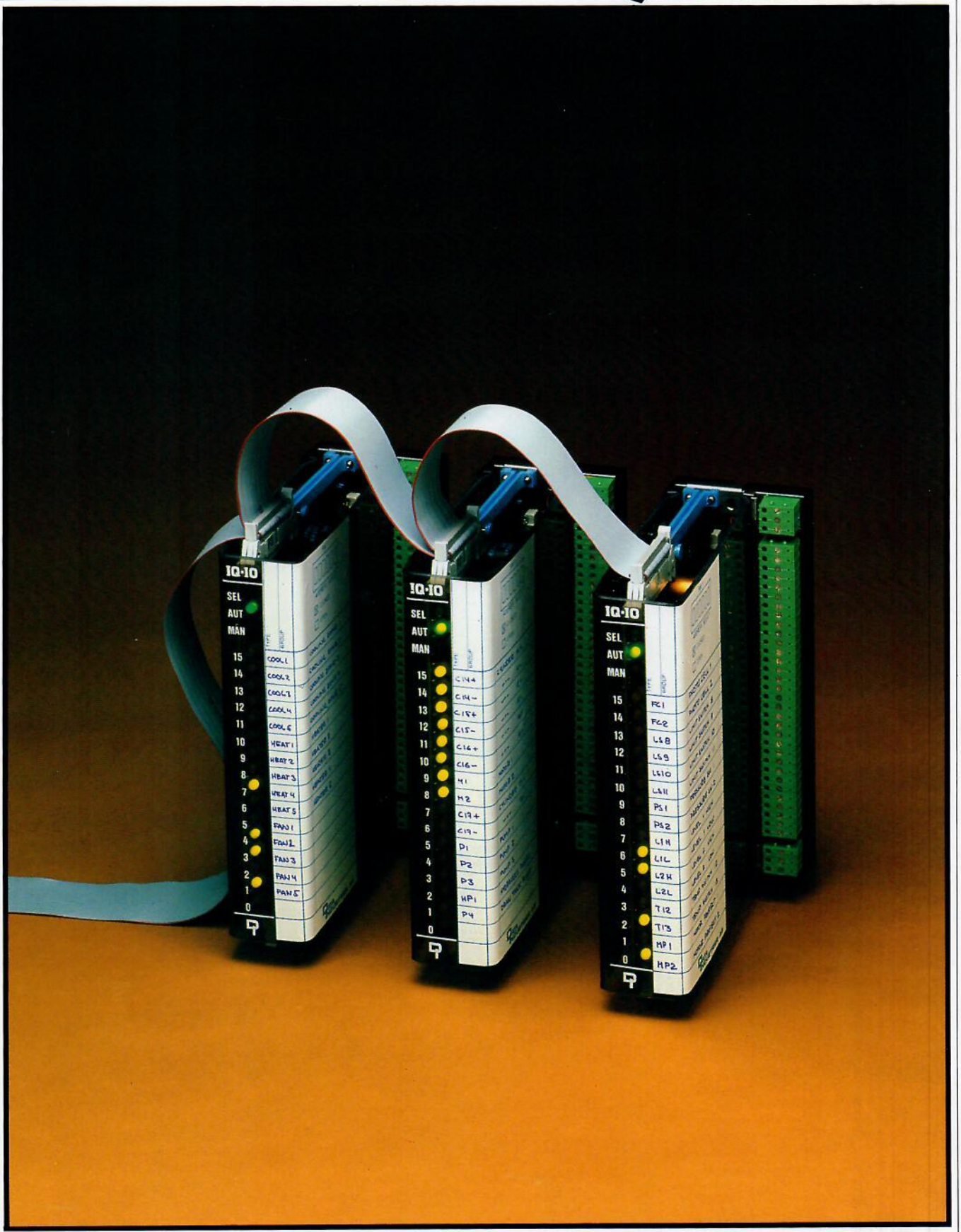


COMPUTER INTERFACES  
ON INDUSTRIAL TERMS  
\*VME AND DATABOARD BUS  
\*HIGH NOISE IMMUNITY  
\*EASY TO INSTALL

# IQ-10



## A NEW APPROACH TO INDUSTRY COMPUTER INTEGRATION

The new Industry Quality Input/Output (IQ-IO) interface series from DIAB is a significant breakthrough into high quality computer integration in process and manufacturing control.

The IQ-IO system from DIAB is a general system and has been designed to provide micro and mini computers with an economical I/O system that really meets the demands of industrial applications with a quality and performance level hitherto only experienced in programmable controllers. The IQ-IO system is a fully computer independent line of products which can be used with a wide range of computers by employing different bus interface modules.

### EASY INSTALLATION

The IQ-IO interfaces are simple to install and come with a complete mounting kit which can be fastened to a mounting rail or a similar backing with two screws. The cables from the process to be controlled or monitored are connected through screw terminal blocks which means that installation can be done with ordinary electrician tools. The computer communicates with the IQ-IO interfaces through a neat ribbon cable.

### HIGH NOISE IMMUNITY AND EASY TESTING

Electrical noise is one of the greatest sources of trouble in any industrial environment. The IQ-IO interface series have been designed with high quality noise immunity circuits featuring galvanic isolation wherever feasible. Further noise immunity is obtained by physically separating the computer interface modules from the signal adaption modules.

All interface modules have LED indication of signal status and control signals. Plug-in connectors make module exchange a matter of seconds. The terminals blocks are provided with test points. And most of the interface modules can be operated manually for test purposes with an optional test switch panel. Altogether, this means that setting-up, trouble-shooting and testing becomes exceptionally simple.

### HIGH DENSITY PACKAGING

The IQ-IO system has been designed for high density physical and electronic packaging. A special IQ-IO/computer interface makes it possible to connect no less than 31 IQ-IO modules, with a total of 496 digital inputs, to one single board in the computer backplane.

### COMPUTER INDEPENDANCE

Computer independence is obtained through different computer interfaces, the process signal interfaces remaining the same. Today, computer interfaces are available for DataBoard 4680, VME bus and, soon, for the Q bus. The computer interfaces may operate with or without onboard processors.

### A GROWING LINE OF PRODUCTS

Presently, the IQ-IO family of interface modules comprises digital input and output modules for voltages between 5 VDC up to 220 VAC, all of which come with galvanic isolation. Included in the family are also a series of master controllers which increase speed performance of the IQ-IO system. Additional modules for analog inputs and outputs, with and without galvanic isolation, will be available.

## IQ-IO PRODUCT LINE

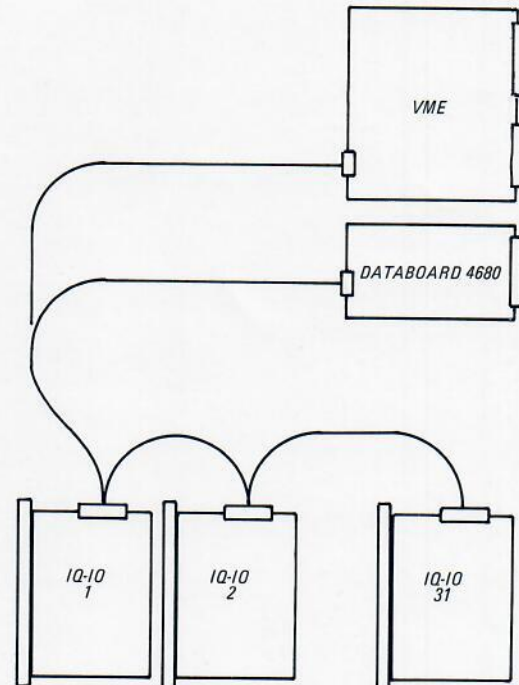
### Mounting Kit

Digital Inputs	5..12 VDC/AC	16 channels	Opto-isolated
Digital Inputs	24..48 VDC/AC	16 channels	Opto-isolated
Digital Inputs	220 VAC	16 channels	Opto-isolated
Relay Outputs	24 VDC/220VAC	16 channels	Free contact (NO)
Transistor Outputs	30 VDC, 0.8A	16 channels	Opto-isolated
Triac Outputs	220 VAC, 1A	16 channels	

ADC Inputs	32 channels
ADC Multiplex Inputs	8 channels
DAC Outputs	2 channels

### Test Switch Panel 1

DataBoard 4680 IQ-IO Interface	
Databoard 4680 IQ-IO Controller	(with CPU)
VME IQ-IO Controller	(with CPU)



**DATA  
INDUSTRIER AB**