ALLDAQ – Your partner for measurement technology and automation

ALLDAQ
Competence in Measurement

ADQ-51 & ADQ-61

Ideal for control units and benches

8 digital in- and outputs (isolated)

Features

- Controllable via USB or I2C (buffered)
- Isolated against USB or I2C control
- 8 digital outputs (up to 600 mA each)
- Parallel connection of the outputs possible
- 8 digital inputs

- I/O level: typ. 24 VDC (16..35 VDC)
- Various status LEDs
- All connectors locked or increased retention
- Robust aluminium housing
- Extensive software support

The ADQ-51 and ADQ-61 digital I/O boxes are suitable for use in industrial automation. The galvanic isolation of 500 VACeff. between field wiring and PC effectively suppresses interference. To protect against contact bounce, these boxes also offer the option of programming a digital filter for each input port.

The ADQ boxes have 8 isolated digital inputs and 8 isolated digital outputs. The inputs have a Schmitt trigger characteristic and are designed for a max. input voltage of 35 V. Each output can drive up to 0.6A. To increase the output current, several outputs can be connected in parallel, so that for most applications no external driver stage is required.

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The boxes in comparison

ADQ-51

ADQ-61

Products	ADQ-51	ADQ-61
Ports	1 x 8 bit digital input port, 1 x 8 bit digital output port	
Input type	Isolated digital inputs (unidirectional) with Schmitt trigger characteristic according to IEC 61131-2 (Type 1/3)	
Output type	Isolated digital outputs (unidirectional)	
Isolation voltage	500 VAC according to EN60664-1 or UL1577	
Input level	$L \rightarrow H$: $> 15\,V$; $H \rightarrow L$: $< 11\,V$; Hysteresis: typ. 1 V (with UEXT=24V)	
Input current	min. 2.3 mA per channel (with UEXT=24V)	
Output level	11..35V	
Output current	Io max. 0.6 A per channel (parallel connection possible)	
External supply	16..35 VDC, typ. 24 VDC for control technology	
Ground	GND (isolated from PC ground GND_PC)	
Interface	USB2.0 full speed (downwards compatible 1.1, 1.0)	I2C (5V), buffered I2C
Connectors	USB type B (increased retention), 1 x 18-pin Phoenix clamping plug (lockable)	1 x 8-pin Würth clamping plug (lockable), 1 x 18-pin Phoenix clamping plug (lockable)
Status LEDs	Power, USB Ready, Act, Error	Power, Error
Operating temperature	0..70 °C	
Warranty	36 months	
Dimensions (without plugs)	90 x 36 x 33mm (LxWxH)	

Bezeichnung	Art.-Nr.	Beschreibung
ALLDAQ ADQ-51	162744	USB2.0 to 8 isolated digital inputs, 8 isolated digital outputs with power driver
ALLDAQ ADQ-51	162782	without housing
ALLDAQ ADQ-61	167288	I2C to 8 isolated digital inputs, 8 isolated digital outputs with power driver
ALLDAQ ADQ-61	172116	without housing

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