A553 Digital Port Extender

The Adcon A553 was built for industrial applications, which require large numbers of digital in- and outputs, not only to monitor equipment, but also to switch devices on and off. It is compatible to the following Series 4 RTUs: A723, A752, A753 and A755. Each A553 will add 7 digital inputs and 7 digital outputs to the RTU. It communicates via the digital pin on each 7-pin connector of an RTU. One such device can be connected per Port. Up to 4 devices can be connected to an A753 RTU, adding 52 digital ports (= adding 4 x 14, but loosing the 4 digi ports on the RTU, needed for communicating with the A553), while one can be added to the A723.

When connecting an A553 to I/O Port A on A753 and A755, which also provides SDI-12 functionality through the digital pin, this functionality will be lost. To operate the A553 the RTU must run on firmware version 2.3.5 or higher. On the A850 Telemetry Gateway firmware 2.1.4 or higher is required.

The A553 Port Extender comes in a plastic box with a transparent cover for DIN rail mounting. A cable to connect it to an Adcon RTU, featuring a 7-pin Binder connector, is included. It needs to be connected to a 24V power source, available within the electrical cabinet. A553 is not meant for outdoor mounting outside a protective enclosure.

A553 Front View

Applications

○ Monitoring electrical devices, such as motors, valves and pumps
○ Switching electrical devices, e.g. in water works, on pivots, etc.

A553 Side View   A553 Rear View

Technical data

Dimensions	111 x 75 x 50mm (L x W x H)
Weight	143g
Material	green polycarbonate w/ clear cover
Operating Temp.	-30°C ... +60°C
Supply Voltage	5,5VDC...28VDC @ 10mA (idle current)
Input Voltage	Low: 0...15V Hi: 18...28V
Output Voltage	Low: <0,5V Hi: 24V
Input status change signal	min. 2s to trigger Digital Port Event

Input resistance	12,2kΩ
Connectors	7 x 2-pin Cage Clamp IN
7 x 2-pin Cage Clamp OUT
1 x 2-pin Cage Clamp to Power
1 x 4-pin Cage Clamp to RTU
Cable length to RTU	35cm
Mounting	DIN Rail snap-on
Ordering Information	
200.733.553	A553 Digital Port Extender