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# A724 addSWITCH

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A724 addSWITCH Series 4 Valve Controller



Opening and closing irrigation valves, starting and stopping other devices remotely is exactly what the A724 addSWITCH Series 4 was designed to do. You no longer need to go on site to activate that latching solenoid - sending a simple radio command to your addSWITCH will do the job!

Device type:	Remote Transmission Unit
Product highlights:	IP-67; Ultra low power design; Wireless remote irrigation control for up to four latching solenoids; 1km radio range
Data transmission:	Radio communication (432-470MHz), 10mW
Sensor interfaces:	1 analog 0 ... 1/2,5VDC; 4 pulse counter (4x 30Hz counters); 4 latching solenoids (voltage programmable 5,5 ... 15VDC)

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Description

Application

Resources

Technical Data

addSWITCH supports a large variety of latching solenoids from most manufacturers, and can be programmed to output the right voltage for most commercially available solenoids.

But our customers not only want to open and close valves (four per addSWITCH), they also want to monitor the flow in their irrigation system. Therefore an A724

addSWITCH can also be connected to 4 pulse counters - which might be irrigation rain gauges directly monitoring the output of a drip line, or water meters, determining the volume of water flowing through a section of your irrigation system. Furthermore an analog sensor with a 0-2.5V output can also be connected, which allows e.g. a manometer to be connected in order to keep an eye on pipeline pressure.

The A724 addSWITCH Series 4 is an extremely robust RTU (Remote Telemetry Unit) with an integrated 10 mW radio module. It is fully compatible with all other members of the ADCON UHF radio family, be that the A733 addWAVE, the A740 addNODE or the A731 addRELAY. It can thus easily be integrated into existing ADCON networks, offering transmission distances of up to 1.000m.

Its extremely low energy consumption allows for permanent solar powered operation. Its internal battery pack powers the radio and the logger and charges the capacitors needed to activate latching solenoids with up to 15VDC.

#### Valve Operation

An addSWITCH can operate 4 latching solenoids, supplying them with 5.5 to 15V DC (programmable). It features a 6-pin Switchcraft connector to connect to the solenoids.

#### What happens if my OFF signal gets lost?

That's a major concern for most growers! With the addSWITCH lost OFF commands are a thing of the past. The ON commands issued by the Adcon addTIMER software also contain the runtime information, which will make the addSWITCH shut off the valves automatically after the desired runtime - WITHOUT the need to send an OFF command!

However, should you want to end an irrigation shift prior to the preset runtime you can certainly do so by transmitting a separate OFF command - just click on the STOP button in the addTIMER!

#### Meter Reading and Irrigation Gauges

In addition to operating solenoids A724 Series 4 also features four pulse counters. This enables you to attach four water meters, or four irrigation gauges, or a mix thereof. This will provide you with additional information if your irrigation system performs correctly.

#### Installation

Just like all other ADCON RTU's the A724 addSWITCH contains all major components - data logger, solenoid switch, radio, power supply - in a single, compact IP-67 rated aluminum enclosure, thus making separate external enclosures obsolete. Installation in the field becomes a very straightforward procedure - fix it to the pole, connect the solar cell and the sensors - done!

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