

A724 addSWITCH Series 4

The A724 addSWITCH has been designed to meet the needs for low cost, wireless remote irrigation control. It is used in conjunction with Adcon's addTIMER software.

The A724 can drive up to four DC latching solenoids and can read up to four pulse output flow meters. It also has an analogue input which can be used to monitor parameters such as system operating pressure. Connection to the solenoid valves is made via a Switchcraft connector. The analogue input and the water meters are connected via a 7pin Binder connector.

The A724's 10mW radio has a nominal range of 1km which can be extended by relaying the signals through one or more of Adcon's high power RTUs. The unit is powered via an internal NiMH battery, which is recharged using a 220mA solar panel.



Applications

- Irrigation Automation and Monitoring
- Remote Pump Control

Technical data

Dimensions	119 x 79 x 60 mm	Max. solenoid runtime	up to 18 hours with a single radio command
Weight	650 g	Operating time (without charging battery)	up to 14 days; depends on slot time, transmission rate, and sensor types
Ingress Protection class	IP-66	Safety	auto-stop of all irrigation valves if battery voltage drops below threshold
Temperature range	-30°C to +70°C	Internal memory	16KB for up to 10,000 values
Case	powder-coated aluminium	Frequency range	432 - 470 MHz
Connectors (all connectors IP66 if properly mated or capped)	1x Switchcraft 6-pin M12 to solenoids 1x Binder M9 7-pin to sensors 1x Binder M9 5-pin to solar cell / power supply	Rx Sensitivity	-110 dBm
Power supply	6.2 V NiMH battery 2.1Ah + solar cell / mains adapter	Tx Output Power	10 mW
Solenoids	4x latching solenoids; Voltage programmable from 5.5V ... 15V _{DC}	Transmission distance	up to 1km
Pulse counters	4x	Antenna	omni-directional whip, ¼λ, 2dBi
Analog sensors	1x 0-1V; 0-2.5V	Type approvals	ACMA Australia, R&TTE, FCC Part 15, Industry Canada, etc.
Sampling interval	user specific (from 60sec. to 12h)	Ordering information:	
Measuring method	simultaneous	100.724.004	A724 addSWITCH Series 4
Resolution	12-Bit @ 0-2.5 V / 30Hz pulse counter	200.733.520	Solar Panel, 220mA
		800.000.285	Spare battery: 2.1Ah, NiMh