

A724 addSWITCH Series 4

The A724 addSWITCH was designed to meet the needs for low cost, wireless remote irrigation control. It is used in conjunction with Adcons 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 Adcons 500mW RTUs. The unit is powered via an internal NiMH battery, which is recharged using a 250mA solar panel.



Applications

- Irrigation Automation and Monitoring
- Remote Pump Control

Technical data

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| 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 ... +70°C | Internal memory | 16KB for up to 10.000 values |
| Case | powder-coated aluminum | 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, ¼ , 2dBi |
| Analog sensors | 1x 0 - 1/2,5V | Type approvals | R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc. |
| Sampling interval | user specific (from 60sec. to 12h) | Ordering information: | |
| Measuring method | simultaneous | 100.724.000 | A724 addSWITCH Series 4 |
| Resolution | 12-Bit @ 0-2,5 V / 30Hz pulse counter | 200.733.520 | Solar Panel, 250mA |
| | | 800.000.285 | Spare battery: 2,1Ah, NiMH |