

A516 GPS Locator with Digital Compass

The Adcon GPS Locator with digital compass, was developed for a variety of applications, mainly the remote observation of moving field equipment.

While the GPS Locator allows you to pinpoint the position of an object (such as a lateral move irrigator, drag line or weather station), the digital compass indicates the direction of movement - which is particularly useful for monitoring the uniformity of the movement of a centre pivot, as any change in speed shows as a change in slope of the graph.

Its extremely low power consumption and robust poly-carbonate housing, make the device ideally suited for permanent outdoor operation. A Goretex breather vent provides pressure compensation; the aluminium arm allows mounting on Adcon's standard aluminium poles; and a 4m cable with Adcon's standard 7-pin connector makes the device compatible with most Adcon RTUs (A723, A733, A753 and



Applications

- Monitoring movement of centre pivot & lateral move irrigators
- Tracking portable equipment such as automatic weather stations

Technical Data

Dimensions	100 x 100 x 350 mm	GPS Locator:	Receiver type	32 channel
Weight	500g		Positional accuracy	1.3m (outdoor) 50% CEP
Ingress Protection class	IP-65	Sensitivity	Tracking	-161 dBm
Temperature range	-30°C to +65°C		Hot acquisition	-161 dBm
Case	Powder-coated aluminium		Cold acquisition	-145 dBm
Connectors (all connectors IP67 if properly mated or capped)	4 x Binder M9 7-pin to sensors 1 x Binder M9 5-pin to solar cell / power supply 1 x TNC Antenna connector	Operating time (without charging of internal battery)	Standard mode: up to 21 days, Power-save mode: up to 6 months; depends on slot time, transmission rate, and type of sensors	
Power supply	5.6 to 16V DC (able to run direct from Adcon RTU)	TTFF (Time To First Fix)	< 1sec @ -130dBm outdoors HOT 33sec typ. @ -130dBm COLD	
Interface	SDI-12	Operational Limits:	Max. velocity: 515m/s	
Accuracy	2 °	Power Consumption:	60mA in acquisition phase	
Resolution	0.01 °	Transmission distance	max 35km (to GSM standard)	
Magnetometer Specifications	± 1100uT Measurement Range 0,015iuT Resolution	Ordering Information:		
Max sample rate	10 per second	200.733.515 200.733.516 A	A515 Digital Compass 516 GPS Locator with Digital Compass	