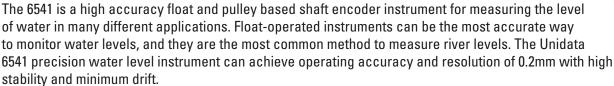
6541 PRECISION WATER LEVEL INSTRUMENT





MODEL C





This accuracy is maintained for the service life of the instrument without calibration or maintenance, apart from battery changes. The 6541 has the range to monitor surface and underground waters and the precision to monitor rainfall and evaporation.

The water level instrument is normally connected to the surface of the water by a float system. As the water level changes, the input shaft rotates. An optical encoder is mounted on the input shaft. On installation, the instrument is set to display the water level.

The encoder is continuously monitored as the instrument tracks water level changes. These changes update the LCD display and the readings can be recorded by an associated datalogger.

The very low mechanical friction and inertia of the instrument means that it can produce data with high precision and accuracy. A replaceable battery pack powers the instrument for more than twelve months. Practical design and rugged construction ensures easy operation and long service life.

SPECIFICATIONS

PHYSICAL SPECIFICATIONS		
	MATERIAL:	Powder coated aluminium mounting with Polycarbonate Enclosure IP66
	SIZE:	180mm x 140mm x 275mm (LxWxH)
	WEIGHT:	2.7kg (including battery)
	OPERATING TEMPERATURE:	-10°C to 60°C
	ELECTRICAL SPECIFICATIONS	
	BATTERY:	6 x 1.5V industrial grade D size Alkaline battery pack 6910A (non-rechargeable)
	BATTERY LIFE:	up to 1 year (based on daily schedule)
	EXTERNAL POWER:	External battery power 7-15VDC may be connected
	RANGE:	Standard 0m-65.5m or -199.999m to 199.999m
	ACCURACY:	1mm, 0.2mm or 0.1inch depending on the chosen float pulley size
	RESOLUTION:	1mm, 0.2mm or 0.1inch depending on the chosen float pulley size

1/0:	2 x HSIO bi-directional channels Up to eight instruments can be daisy chained Optional 4-20mA	
SDI-12:	SDI-12V 1.3 recorder (1200 baud smart instrument channel)	
LCD TYPE:	Reflective grey no backlight	
DISPLAY FORMAT:	One line x 6 Characters, 7 segments	
OPTIMUM VIEWING:	6 o'clock	
CABLE:	5m 8 core data cable	
INTEGRATED LOGGER SPECIFICATIONS - OPTIONAL		
STORAGE MEMORY:	Low power CMOS RAM 512k standard	
RAM BACK UP BATTERY:	Lithium Battery 3V, 950mAh	
TIME CLOCK:	Crystal regulated, +/- 10 seconds/month	
SCAN RATES:	Programmable from 5 seconds to 5 minutes	
LOG INTERVALS:	Programmable from 5 seconds to 24 hours	
CPU:	80C552 microcontroller, 14.7456 MHz	