

6536

WATER CONDUCTIVITY INSTRUMENT WITH 6536P PROBE



MODEL E AND P



The 6536 Water Conductivity Instrument with 6536 Probe measures the electro-conductivity and temperature of water in streams, rivers, lakes and in the groundwater system, using bore holes.

The temperature is measured within the sensing cell to provide precision correction. Both, temperature corrected and uncorrected, conductivity measurements are available for recording.

A Starlog compatible micrologger with 512KB memory is part of the instrument, providing all the standard Unidata data logger features such as SDI-12,

intelligent battery supervision, modem interface and all the programmability found in Starlog dataloggers.

Ultra-low power consumption makes the 6536 ideal for remote, unattended operation. This instrument will operate for months from a single model 6910A or 12V battery.

SPECIFICATIONS

INSTRUMENT PHYSICAL SPECIFICATIONS	
MATERIAL:	Polycarbonate Enclosure
SIZE:	230mm x 65mm x 80mm (LxWxH)
WEIGHT:	1.5kg (including battery)
OPERATING TEMPERATURE:	0°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
COMMUNICATION:	1 x RS232C Baud rates: 300/1200/2400/4800/9600/19200/38400
SDI-12:	SDI-12V 1.3 recorder (1200 baud smart instrument channel)
EC OPERATING RANGE	
LOW:	0-200µS/cm
ACCURACY:	±2%
RESOLUTION:	0.2µS/cm
MID:	200-20,000µS/cm
ACCURACY:	±1%
RESOLUTION:	2.0µS/cm
HIGH:	20,000-200,000µS/cm
ACCURACY:	±1%
RESOLUTION:	20µS/cm
TEMPERATURE	
RANGE:	-20°C to 60°C
ACCURACY:	± 0.1°C
RESOLUTION:	0.0612°C
COMPENSATION RANGE:	0°C to 60°C

CHANNELS	Conductivity: 0 – 200,000 (uncompensated) Conductivity: 0 – 200,000 (temperature compensated) Conductivity: 0 – 65,535 (uncompensated) Low resolution (for SDI-12) Conductivity: 0 – 65,535 (temperature compensated) Low resolution (for SDI-12) Water temperature, battery voltage
INTEGRATED LOGGER SPECIFICATIONS	
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
PROBE PHYSICAL SPECIFICATIONS	
MATERIAL:	Derlin Housing, back epoxy
SIZE:	Diameter 15.3mm x 163mm L
WEIGHT:	500g (including 10m of cable)
OPERATING TEMPERATURE:	0°C to 60°C
IMMERSION DEPTH:	36mm minimum to more than 100m
SENSOR CABLE:	10 metres, 20m & 50m with SQL connector, custom lengths available
SENSOR TYPE:	Four (4) Electrode, cocentric graphite
PRESSURE RESISTANCE:	10 bar
CELL CONSTANT:	0.475cm-1 ±2.0%
THERMISTOR TYPE:	Integrated NTC (30kΩ@25°C)