3000 SERIES COMPARISON CHART

MODEL	3001 BOREHOLE NEON REMOTE LOGGER	3004 NEON REMOTE LOGGERS	3004M NEON REMOTE LOGGER	3004N NEON REMOTE LOGGER	3008 NEON REMOTE LOGGER	3016 NEON REMOTE LOGGER
MATERIAL	Polycarbonate	Powder Coated Aluminium Enclosure	Polycarbonate	Powder Coasted Aluminium Enclosure	Powder Coated Aluminium Enclosure	Powder Coated Aluminium Enclosure
SIZE	L115mm x L90mm x L80mm or L120mm x L85mm x L71mm, 300g	L182mm x W110mm x H46mm, 400g	L190mm x W80mm x H55mm, 300g	L108mm x W97mm x H81mm, 330g	L282mm x W122mm x H40mm, 650g	L295mm x W160mm x H40mm, 850g
OPERATING TEMPERATURE	-20°C to 60°C. Not affected by humidity	-20°C to 60°C. Not affected by humidity	-20°C to 60°C. Not affected by humidity	-20°C to 60°C. Not affected by humidity	-20°C to 60°C. Not affected by humidity	-20°C to 60°C. Not affected by humidity
ANTENNA	Model dependant	Model dependant	Model dependant	Model dependant	Model dependant	Model dependant
SCAN RATE	Programmable from 1 second to 5 minutes	Programmable from 1 second to 5 minutes	Programmable from 1 second to 5 minutes	Programmable from 1 second to 5 minutes	Programmable from 1 second to 5 minutes	Programmable from 1 second to 5 minutes
LOG RATE	Programmable from 1 second to 24 hours	Programmable from 1 second to 24 hours	Programmable from 1 second to 24 hours	Programmable from 1 second to 24 hours	Programmable from 1 second to 24 hours	Programmable from 1 second to 24 hours
TIME CLOCK	Battery Backed Real Time Clock, Accuracy ±10 sec/month (non-Neon version), locked to server time clock (Neon)	Battery Backed Real Time Clock, Accuracy ±10 sec/month (non-Neon version), locked to server time clock (Neon)	Battery Backed Real Time Clock, Accuracy ±10 sec/month (non-Neon version), locked to server time clock (Neon)	Battery Backed Real Time Clock, Accuracy ±10 sec/month (non-Neon version), locked to server time clock (Neon)	Battery Backed Real Time Clock, Accuracy ±10 sec/month (non-Neon version), locked to server time clock (Neon)	Battery Backed Real Time Clock, Accuracy ±10 sec/month (non-Neon version), locked to server time clock (Neon)
CPU	16 Bit, 20MHz, Ultra Low Power	16 Bit, 20MHz, Ultra Low Power	16 Bit, 20MHz, Ultra Low Power	16 Bit, 20MHz, Ultra Low Power	16 Bit, 20MHz, Ultra Low Power	16 Bit, 20MHz, Ultra Low Power
STORAGE MEMORY	7.5Mbytes Flash (non-volatile), 3.75 Million log data points	7.5Mbytes Flash (non-volatile), 3.75 Million log data points	7.5Mbytes Flash (non-volatile), 3.75 Million log data points	7.5Mbytes Flash (non-volatile), 3.75 Million log data points	7.5Mbytes Flash (non-volatile), 3.75 Million log data points	7.5Mbytes Flash (non-volatile), 3.75 Million log data points
EXTERNAL POWER	9 to 30V DC	9 to 30V DC	9 to 30V DC	9 to 30V DC	9 to 30V DC	9 to 30V DC
EXTERNAL BATTERY	Optional: 3901 2 x Li D Cell Battery Pack	Optional: AUX BAT connector to suit non-rechargable 6910A Battery Pack	Optional	Optional	Optional: AUX BAT connector to suit non-rechargable 6910A Battery Pack	Optional: AUX BAT connector to suit non-rechargable 6910A Battery Pack
INTERNAL BATTERY	Two 3.6 Volt Lithium D Cell	No	Single 3.6 Volt Lithium D Cell	Single 3.6 Volt Lithium D Cell	No	No
CURRENT DRAW	< 85µA Standby, Max 500mA Active	<1mA Standby, Max 500mA Active	< 65µA Standby, Max 500mA Active	< 65µA Standby, Max 500mA Active	<1.7mA Standby, Max 500mA Active	<1.7mA Standby, Max 500mA Active
RTC BACKUP BATTERY	3.6V Li Coin Cell (5 year life)	3.6V Li Coin Cell (5 year life)	3.6V Li Coin Cell (5 year life)	3.6V Li Coin Cell (5 year life)	3.6V Li Coin Cell (5 year life)	3.6V Li Coin Cell (5 year life)
CONFIGURATION PORT	USB B Micro Port and SD Micro Card	USB B Port and SD Micro Card	USB B Micro Port and SD Micro Card	USB B Micro Port and SD Micro Card	USB B Port and SD Micro Card	USB B Port and SD Micro Card
LCD	No	Optional 240 x 320, Colour, Touch Panel	No	Optional 240 x 320, Colour, Touch Panel	240 x 320, Colour, Resistive Touch Panel	240 x 320, Colour, Resistive Touch Panel
ANALOG CHANNELS	1 Single ended (0-2.5V DC) with 12 bit resolution	Default: 4 Single-ended (max) or 2 Differential (max), Different configurations on request, 24-bit resolution, 4 user-selectable gain ranges	Default: 4 Single-ended (max) or 2 Differential (max), Different configurations on request, 24-bit resolution, 4 user-selectable gain ranges	Default: 4 Single-ended (max) or 2 Differential (max), Different configurations on request, 24-bit resolution, 4 user-selectable gain ranges	8 Single-ended (max) or 4 Differential (max), 24-bit resolution, 4 user-selectable gain ranges	16 Single-ended (max) or 8 Differential (max), 24-bit resolution, 4 user-selectable gain ranges
COUNTER CHANNELS	1 x 16 bit, DC to 300Hz potential free contacts (C0). Shared with Digital Input	2 x 16 bit, DC to 20kHz potential free contacts (C0/C2); 2 x 16 bit, DC to 300Hz potential free contacts (C1/C3), Different configurations on request. Shared with Digital Input	2 x 16 bit, DC to 20kHz potential free contacts (C0/C2); 2 x 16 bit, DC to 300Hz potential free contacts (C1/C3), Different configurations on request. Shared with Digital Input	2 x 16 bit, DC to 20kHz potential free contacts (C0/C2); 2 x 16 bit, DC to 300Hz potential free contacts (C1/C3), Different configurations on request. Shared with Digital Input	2 x 16 bit, DC to 20kHz potential free contacts (C0/C2); 2 x 16 bit, DC to 300Hz potential free contacts (C1/C3), Different configurations on request. Shared with Digital Input	2 x 16 bit, DC to 20kHz potential free contacts (C0/C2); 2 x 16 bit, DC to 300Hz potential free contacts (C1/C3), Different configurations on request. Four shared with Digital Input
INSTRUMENT POWER	5.5V (100mA) to 18V (60mA) regulated, User Programmable	5V regulated 100mA fused	5.5V (100mA) to 18V (60mA) regulated, User Programmable	5.5V (100mA) to 18V (60mA) regulated, User Programmable	12V regulated, 200mA fused, 5V regulated, 100mA fused	12V regulated, 200mA fused, 5V regulated, 100mA fused
INST. REFERENCE VOLTAGE	No	No	5V 10mA Max	2.5V 10mA Max	No	No
SDI-12	Single Channel, SDI V1.3 Compliant instrument and recorder modes supported	Single Channel, SDI V1.3 Compliant instrument and recorder modes supported	Single Channel, SDI V1.3 Compliant instrument and recorder modes supported	Single Channel, SDI V1.3 Compliant instrument and recorder modes supported	Two Independent Channels, SDI V1.3 Compliant instrument and recorder modes supported	Two Independent Channels, SDI V1.3 Compliant instrument and recorder modes supported
MODBUS	Single Channel, RS485 RTU or ASCII protocol, 57600 baud (max) Functions 01, 02, 03, 04, 05/15, 06/16	Single Channel, RS485 RTU or ASCII protocol, 57600 baud (max) Functions 01, 02, 03, 04, 05/15, 06/16	Single Channel, RS485 RTU or ASCII protocol, 57600 baud (max) Functions 01, 02, 03, 04, 05/15, 06/16	Single Channel, RS485 RTU or ASCII protocol, 57600 baud (max) Functions 01, 02, 03, 04, 05/15, 06/16	Two Independent Channels, RS485 RTU or ASCII protocol, 57600 baud (max) Functions 01, 02, 03, 04, 05/15, 06/16	Two Independent Channels, RS485 RTU or ASCII protocol, 57600 baud (max) Functions 01, 02, 03, 04, 05/15, 06/16
HSIO	No	Yes	Yes	Yes	No	Yes
DIGITAL OUTPUT	No	Single - Open Drain FET 30VDC 250mA max	Single - Open Drain FET 30VDC 250mA max	Single - Open Drain FET 30VDC 250mA max	Single - Open Drain FET 30VDC 250mA max	Two - Open Drain FET 30VDC 250mA max
ETHERNET	No	Yes, 10/100 Mbit	No	No	Yes, 10/100 Mbit	Yes, 10/100 Mbit
ACCELEROMETER	Yes, Senses changes in logger orientation	Yes, Senses changes in logger orientation	Yes, Senses changes in logger orientation	Yes, Senses changes in logger orientation	Yes, Senses changes in logger orientation	Yes, Senses changes in logger orientation
BAROMETER	Optional-260-1260hPa Absolute, resolution: 0.1 hPa	Optional-260-1260hPa Absolute, resolution: 0.1 hPa	Optional-260-1260hPa Absolute, resolution: 0.1 hPa	Optional-260-1260hPa Absolute, resolution: 0.1 hPa	Optional-260-1260hPa Absolute, resolution: 0.1 hPa	Optional-260-1260hPa Absolute, resolution: 0.1 hPa
SOLAR CONTROLLER	No	Yes - Suitable for 12V up to 20W Solar Panels 12V 14Ah SLA Battery or smaller, 1A charge current limit"	No	No	Yes - Suitable for 12V up to 20W Solar Panels 12V 14Ah SLA Battery or smaller, 1A charge current limit	Yes - Suitable for 12V up to 20W Solar Panels 12V 14Ah SLA Battery or smaller, 1A charge current limit
BLUETOOTH	Optional - Yes	Optional - Yes	Optional - Yes	Optional - Yes	Optional - Yes	Optional-Yes
SERIAL INSTRUMENT	No	No	No	No	RS232 port, full implementation (all 9 signals available), baud rate 115200 max	RS232 port, full implementation (all 9 signals available), baud rate 115200 max
RELAY	No	1 x Normally Open and Normally Closed Contacts 1A 30VDC, 0.5A 125VAC	No	1 x Normally Open and Normally Closed Contacts 1A 30VDC, 0.5A 125VAC (with FTS 3110)	2 x Normally Open and Normally Closed Contacts 1A 30VDC, 0.5A 125VAC	2 x Normally Open and Normally Closed Contacts 1A 30VDC, 0.5A 125VAC
DIGITAL INPUT	1 x 0 to 5V DC Digital Input	4 x 0 to 5V DC Digital Input	4 x 0 to 5V DC Digital Input	4 x 0 to 5V DC Digital Input	4 x 0 to 5V DC Digital Input	8 x 0 to 5V DC Digital Input
MODEM OPTIONS	- Cellular 3G/4G/LTE - NBIoT - Satellite Iridium SBD	- Cellular 3G/4G/LTE - NBIoT - Satellite Iridium SBD - Satellite Inmarsat BGAN Hughes 9502 - Satellite Inmarsat BGAN Sabre Ranger - Satellite Certus Iridium RockRemote - Satellite Certus Iridium SkyLink	- Cellular 3G/4G/LTE - NBIoT - Satellite Iridium SBD	- Cellular 3G/4G/LTE, Supports 2 x SIM Cards - NBIoT, Supports 2 x SIM Cards - Satellite Iridium SBD	- Cellular 3G/4G/LTE, Supports 2 x SIM Cards - NBIoT, Supports 2 x SIM Cards - Satellite Iridium SBD - Satellite Inmarsat BGAN Hughes 9502 - Satellite Inmarsat BGAN Sabre Ranger - Satellite Certus Iridium RockRemote - Satellite Certus Iridium SkyLink	- Cellular 3G/4G/LTE, Supports 2 x SIM Cards - NBIoT, Supports 2 x SIM Cards - Satellite Iridium SBD - Satellite Inmarsat BGAN Hughes 9502 - Satellite Inmarsat BGAN Sabre Ranger - Satellite Certus Iridium RockRemote - Satellite Certus Iridium SkyLink

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