



## **DIGITAL WATER LEVEL QUALITY RECORDER (DWLQR) TECHNICAL BROCHURE**

### **DWLQR:**

DWLQR is a system which complies with the CGWA Guidelines to measure groundwater level & quality. It is designed to calculate the water column based on the hydrostatic pressure & water quality parameters, like TDS, pH, Electrical Conductivity & optional parameters. This system is used for water e-Governance to monitor the water level in the aquifer/resource as mandated by the CGWA.

### **1 DWLQR options:**

<b>Feature</b>	<b>Options</b>
<b>Troll</b>	<b>Vented   Non-Vented</b>
<b>Data Transfer</b>	<b>Telemetry   Non-Telemetry</b>
<b>Power source</b>	<b>Grid /Battery</b>

### **Services:**

- Product & Solution Sales
- Installation
- Data Management and Security
- Maintenance & Services
- Water Legal Compliance

## 2 DWLQR models:

All models are CGWA Guidelines

Compliant

DWLQR Model	Troll signal OP	Troll type	Data transfer	Digital reporting	Local data store	Power source
BDWLQR-TB-1802	RS485	Vented	Telemetry	Yes	No	Battery
BDWLQR-TG-1802	RS485	Vented	Telemetry	Yes	No	Grid

## 3 DWLQR Technical specifications:

Troll			
Troll Model	Water column depth (meter)	Troll Model	Water column depth (meter)
TSB20	20	TSB600	600
TSB100	100	TSB1000	1000
TSB200	200	TSB1500	1500
Compensation and Output			
	Non-Vented Troll	Vented Troll	
Compensation	No compensation	Pressure and Temperature	
Output to Communicator	NA	RS485	
Performance only for level measurement (quality parameters will not have an effect)			
	Non-Vented Troll	Vented Troll	
Accuracy for water level (quality parameters will not have an effect)	< ±0.5 % of span	< ±0.25 % of span	
Non linearity (IEC 61298-2)	< ±0.2 % of span BFSL		
Repeatability	< ±0.1 % of span		
Operating temperature	-10 to +55 °C (14 to 131 °F)		
	Zero point		Span
Mean temperature coefficient	≤±0.2% of span per 10 °K	< ±0.4 % of span per 10 °K	≤±0.2 % of span per 10 °K
Long term drift	< ±0.2 % of span per year		

#### 4 Sensors specifications:

pH Sensor (pH)			
Range (pH)	Make	Sr. No.	Output (ADC)
0-14	Bulfro	BT-2142CD I	0-4095
Conductivity Sensor (Micro Siemens-meter)			
Range (µS/m)	Make	Sr. No.	Output (ADC)
0-1400	Bulfro	BL2C11074	0-4095
TSS (Totally Suspended Solids)			
Range (mg/L)	Make	Sr. No.	Output (ADC)
0-1000	Bulfro	FLDSS451	0-4095

Battery (Battery powered option)	
Nominal voltage	14 V DC
Ingress Protection rating	IP68

#### 5 Communicator specifications:

Communicator (mounted inside the Stand pole)	
Display	4 rows x 16 characters with backlight
Menu operation	4 tactile keys
Power supply	Internal Battery or external Grid power 230±10% V AC
Operating temperature	0 to +50 °C (32 to 122 °F)
Storage temperature	-10 to +60 °C (14 to 140 °F)
Ingress Protection rating	IP65
Telemetry option	
Data transfer	Via in-built GPRS modem
Configurable parameters	Server address Data transmit frequency
Non-Telemetry option	
Local data storage	500 MB sufficient for more than 2 years
Data transfer	Via USB port
Software	Utility to transfer data to user laptop or computer

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