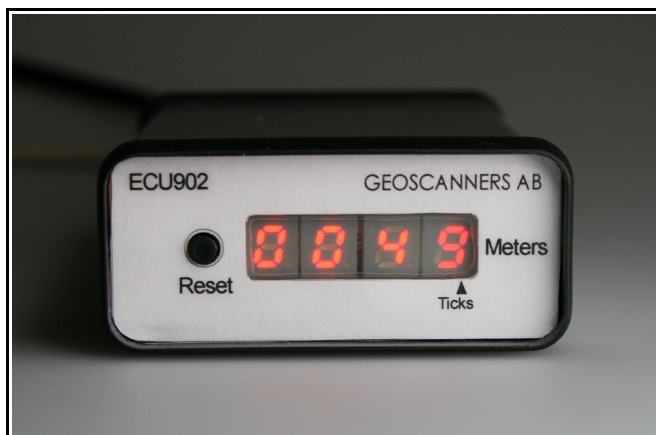




Geoscanners AB®



## ECU902

The ECU902 is a display unit for the survey wheel encoder implemented in the borehole tripod GTP-901. It provides a simple way of checking the used length of cable when the GPR display is not at a convenient distance.

The unit is absolutely transparent to the operation of the GTP-901 and will not introduce any delays or other artifacts to the pulses coming to the ground penetrating radar control unit.

### ***General Specifications:***

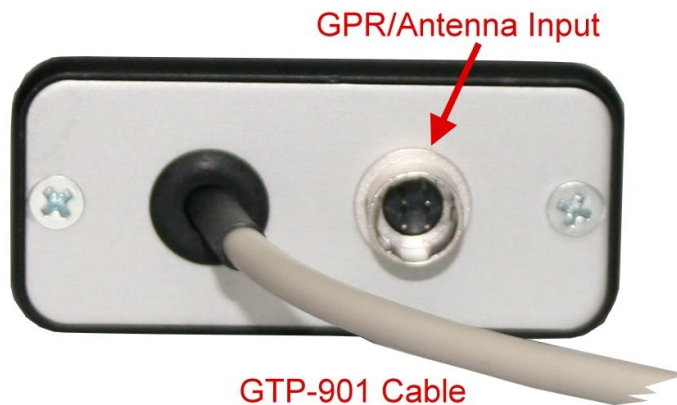
Display unit dimensions (LxWxH)	80x54x23 mm
Unit Weight	150g
Standard Cable Length	2m
IP Rating	IP54

### ***Electrical Specifications:***

Power	5VDC (10mA)
Input Format	Quadrature Channels A and B, no index
Calibration Value (on 12mm Cable)	32 ticks/meter (Single Ended)



**ECU902 Front View**



**ECU902 Rear View**

### **Operating Instructions:**

1. Connect the GTP-901 cable to the input in the tripod's survey wheel encoder. The connector has a key so rotate it gently until it falls in place, insert it then.
2. Connect your survey wheel cable coming from the GPR unit or the antenna to the GPR/Antenna input in the rear part of the ECU902.
3. Apply power to your GPR and the display should lit up with four zeros.
4. If there is any other value then press the reset button to set the unit to zero.
5. Rotate the pulley in your GTP-901 forward and approximately at 3 turns the first meter appears in the display. With a cable of 12mm in diameter a meter of cable is equal to 2.6 turns of the pulley. Pay attention to the fact that while rotating the pulley a dot right over the arrow "ticks" in the display will lit every time a pulse is received. This is to indicate that the unit is processing the input data.

The unit will count up to 9999 meters after which it will roll over to zero, the same is valid in the opposite direction where 9999meters will appear if rotating backwards



The arrow in the picture shows the movement of the pulley going forward, this will result in the meter count in the ECU902 to increment. This is also the direction to get positive numbers in the SIR3000® from GSSI.

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