

**The TelePole II** is a wide range telescopic survey meter with a Dose rate range from 0.01  $\mu\text{Sv/h}$  to 10  $\text{Sv/h}$  capable of supporting a wide variety of external detectors.

## Radiation Detection Division

### Health Physics

The TelePole II can be used as a stand-alone instrument, or integrated into systems, using existing equipment and software. The TelePole II features built-in data memory, data downloading capability, and an optional integrated transmitter for remote transmission of survey data.

The TelePole II can be purchased with either an aluminum pole or carbon fiber pole.

The external detector, which contains two GM tubes also includes an external LED to light up and focus the area being surveyed.

The Meter can be used as a stand-alone portable survey meter with a color display providing visual input in regard to the measured radiation levels from 0.1  $\mu\text{Sv/h}$  to 15  $\text{mSv/h}$  (0.01  $\text{mR/h}$  to 1.5  $\text{R/h}$ )



## Features

- Quick Connect Multi Detector options
- Color coded display featuring large easy to read digits
- Simultaneous display of external and internal detectors.
- Simple multi- layered menu for quick selection of command
- Integrated WRM<sup>2</sup> communication
- Anodized Aluminum 13' Pole with  $\frac{1}{4}$  turn positive locking mechanism
- Built in LED on the tip of detector to light up dark areas being surveyed
- Interchangeable "smart" detector capabilities
- Long battery life (100 hours)
- IP-67 rating available

## External Detectors

All the detectors mentioned below include the calibration factor and communication to the Meter is via USB:

- Detectors may be switched and swapped instantly
- Detectors may be connected independently via standard USB cable to a Computer
- Meter will automatically identify the detector
- All specifications are according to  $^{137}\text{Cs}$



### Gamma Wide Range (WR)

<b>Radiation Measured:</b>	Gamma, X-Rays
<b>Detector:</b>	ZP-1201 and ZP1301 or equivalent
<b>Dose Rate Range (Sv):</b>	0.1 uSv/h to 10 Sv/h
<b>Dose Rate Range (R):</b>	0.01 mR/h to 1,000 R/h
<b>Dose Range:</b>	0.01 uSv to 999 Sv (0.01 mR to 999 R)
<b>Sensitivity:</b>	17 cps/mR/h   0.3 cps/mR/h
<b>Energy Range:</b>	65 keV to 2 MeV
<b>Protection:</b>	IP-67 rated Includes LED on the tip to survey dark areas



### Gamma & Beta Wide Range

<b>Radiation Measured:</b>	Gamma, X-Rays and Beta
<b>Detector:</b>	ZP-1400 and ZP1301 or equivalent
<b>Dose Rate Range (Sv):</b>	0.1 uSv/h to 10 Sv/h
<b>Dose Rate Range (R):</b>	0.01 mR/h to 1,000 R/h
<b>Dose Range:</b>	0.01 uSv to 999 Sv (0.01 mR to 999 R)
<b>Sensitivity:</b>	17 cps/mR/h   0.3 cps/mR/h
<b>Energy Range:</b>	65 keV to 2 MeV
<b>Protection:</b>	IP-67 with protective cap attached



### Gamma Very High Range (VHR)

<b>Radiation Measured:</b>	Gamma, X-Rays
<b>Detector:</b>	ZP1201 and 4G60M or equivalent
<b>Dose Rate Range (Sv):</b>	0.1 uSv/h to 100 Sv/h
<b>Dose Rate Range (R):</b>	0.01 mR/h to 10,000 R/h
<b>Dose Range:</b>	0.01 uSv to 999 Sv (0.01 mR to 999 R)
<b>Sensitivity:</b>	17 cps/mR/h   60 cps/R/h
<b>Energy Range:</b>	65 keV to 2 MeV
<b>Protection:</b>	IP-67 rated Includes LED on the tip



### Gamma Highly Sensitive (XDS)

<b>Radiation Measured:</b>	Gamma, X-Rays
<b>Detector:</b>	CsI(Tl) crystal with Silicon Photomultiplier
<b>Dose Rate Range (Sv):</b>	Background to 500 μSv/h   55 kcps
<b>Dose Rate Range (R):</b>	Background to 50 mR/h   55 kcps
<b>Dose Range:</b>	0.01 uSv to 999 Sv (0.01 mR to 999 R)
<b>Sensitivity:</b>	110 cps/μSv/h
<b>Energy Range:</b>	50 keV to 1.7 MeV
<b>Protection:</b>	IP-67 rated Includes LED on the tip

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

# Technical Specifications

## Meter

<b>Detector:</b>	Energy Compensated GM tube (ZP-1201 or equivalent)
<b>Dose Rate Range (Sv):</b>	0.1 uSv/h to 15 mSv/h
<b>Dose Rate Range (R):</b>	0.01 mR/h to 1.5 R/h
<b>Linearity:</b>	± 10% of reading
<b>Energy Range:</b>	50 KeV – 2 MeV
<b>Energy Response:</b>	Better than 20% for whole energy range
<b>Sensitivity (<sup>137</sup>Cs):</b>	17 cps/mR/h
<b>Display:</b>	Color TFT Display
<b>Threshold Alarms:</b>	User selectable for dose rate and accumulated dose
<b>Battery Life:</b>	100 hours continuous operation (Four 1.5 Volt AA batteries)
<b>Housing:</b>	Ruggedized Plastic, IP-65 or IP-67
<b>Operating temperature:</b>	-20°C to + 50°C
<b>Humidity:</b>	Up to 93% at 35 °C
<b>Weight:</b>	440 grams (0.97 lbs)

## Telescopic Probe

<b>Detectors:</b>	The TelePole II supports a number of detectors
<b>Telescopic Pole:</b>	Available in a number of lengths  Anodized Aluminum, quarter turn positive locking Carbon Fiber 5 segments with external locking grips
<b>Pole Length:</b>	Collapsed : 120 cm (3' 11") Extended: 400 cm (13')
<b>Meter Bracket:</b>	Ruggedized Bracket allowing for quick release of Meter
<b>Carrying Strap:</b>	included

Material	Collapsed Length	Extended Length
Aluminum	82 cm (2.7 ft.)	1.76 m (5.7 ft.)
Carbon Fiber (thin)	108 cm (3.5 ft.)	3.61 m (12 ft)
Carbon Fiber (wide)	108 cm (3.5 ft.)	3.69 m (12 ft.)
Aluminum	119 cm (3.9 ft.)	3.35 m (11ft.)
Aluminum	139 cm (4.6 ft.)	4.12 m (13.5 ft.)

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## Ordering Information:

	Logo	Extended Pole Length	Int. Detector in Meter	External Detector on Pole	Units of Measurement	IP Rating
TEL-	1 Mirion	1 AL 1.5 m	1 Without	1 Gamm Wide Range	1 R/h	1 IP-65
	2 Rotem	2 AL 3.3 m	2 Included	2 Gamma + Beta	2 Sv/h	2 IP-67
		3 AL 4 m		3 Gamma VHR		
		4 Carbon 3.3 m		4 Gamma XDS		

The TelePole II is available in different configurations. Please use the table to define a catalog number which describes your exact configuration:

The Catalog Number should contain 7 digits and be described as follows:

TEL-2111111

This Cat Number describes the following configuration:

The Instrument will have a Rotem logo with a telescopic Pole extended length of 1.5 m, without internal detector in Meter, with a Wide Range (gamma only) detector at the end of the telescopic pole. The Units of measurement are in R/h and meter and detector are IP-65 rated.

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