

SOLAR-POWERED REMOTE TERMINAL UNIT

THE SOLAR-POWERED RTU ENABLES A UTILITY TO MONITOR A REMOTE SITE WHEN IT IS IMPRACTICAL OR TOO EXPENSIVE TO RUN ELECTRICAL POWER TO THE LOCATION. TYPICAL APPLICATIONS FOR A SOLAR-POWERED RTU ARE WATER LEVEL MEASUREMENT AND RAINFALL MONITORING.

THE SOLAR-POWERED RTU UTILIZES A HIGH EFFICIENCY MULTI-CRYSTAL PHOTOVOLTAIC MODULE MANUFACTURED BY KYOCERA. ITS CELLS ARE ENCAPSULATED BETWEEN A TEMPERED GLASS COVER AND A POTTANT WITH BACK SHEET TO PROVIDE EFFICIENT PROTECTION FROM THE SEVEREST ENVIRONMENTAL CONDITIONS. THE ENTIRE LAMINATE IS INSTALLED IN AN ANODIZED ALUMINUM FRAME TO PROVIDE STRUCTURAL STRENGTH AND EASE OF INSTALLATION.

THE RTU IS ALSO EQUIPPED WITH A SOLAR POWER MODULE (SPM) AND 18 AH BATTERY TO PROVIDE POWER TO A TELEMETRY INTERFACE MODULE (TIM), ANALOG MONITOR MODULE (AMM), AND/OR DIGITAL MONITOR MODULE (DMM). THIS DESIGN PROVIDES POWER TO THE SOLAR-POWERED RTU FOR UP TO 3 DAYS WITHOUT SUNLIGHT.



SPECIFICATIONS	
RTU MODEL	SOLAR RTU202
SOLAR PANEL WATTS	43W (+10%/-5%)
BATTERY RATING	18 AH (SEALED LEAD ACID)
DAYS WITHOUT SUNLIGHT	UP TO 3 DAYS
DIGITAL MONITORING	UP TO 12 INPUTS (24VDC)
ANALOG MONITORING	UP TO 4 INPUTS (4-20 MA)
ENCLOSURE SIZE	19.62" X 17.61" X 8.82"
ENCLOSURE MATERIAL	FIBERGLASS / POLYESTER
SOLAR PANEL SIZE	20.7" X 25.7" X 2.1"