



### FUNCTIONS AND APPLICATIONS:

- Radio remote operation up to 5km away
- Supports up to 3 radios
- Monitor voice on all 3 radios simultaneously

### FEATURES & BENEFITS:

- Robust design
- Field wire compatible
- Ease of installation and use
- Continuous field wire integrity checking
- Built-in Loudspeaker

### RADIO REMOTE OPERATION AND CONTROL

The **RW3** Three-Radio Remote Set allows an operator to use radios from a remote location up to 5 km away using D-10 or P-274 field wire. The remote operator can select one of the three connected radios to use and speak over the selected radio.

The **RW3** can be used to set up radio communications for open-pit or underground mining applications, rapid high-site installations and general radio remote use scenarios.

The **RW3** system consists of two parts:

- **Radio Interface Unit (RIU):** Connects to the radios
- **Remote Control Unit (RCU):** Used by the remote operator

\*The **RIU** and the **RCU** must be connected to each other using D-10 or P-274 field wire (not included).

The **RW3** also provides an operator CALL function between the **Radio Interface Unit** and **Remote Control Unit**.

## RADIO INTERFACE UNIT CAPABILITIES

The **Radio Interface Unit (RIU)** connects to the Radios. It indicates the status of the power supply, radio connection(s) and the integrity of the Field Wire line. The **RIU** is powered directly from any of the connected radios.

## REMOTE UNIT CAPABILITIES

The **Remote Control Unit (RCU)** provides the interface from which to operate the radio(s). It has a handset connection with volume control which allows normal voice operation. It also has a selector switch to select the radio and mode of operation. The **RCU** connects to the **RIU** via a length of Field Wire. The **RCU** is powered from an external DC power source.

## REMOTE TO LOCAL COMMUNICATION

The **RW3** units provide a CALL mechanism between the **RIU** and **RCU** units. This allows the **RIU** to be manned and receive voice calls from the **RCU** operator. Alternatively, the **RIU** operator can receive calls from various radios and route them to the **RCU** unit operator.

## BUILT-IN LOUDSPEAKER

Both **RW3** units are fitted with internal waterproof loudspeakers to alert operators of incoming calls or to monitor radio activity.

## RADIO REMOTE SET PACKAGE

The **RW3** package includes:

- 1x Remote Control Unit - RCU
- 1x Radio Interface Unit - RIU
- 1x DC Power Cable (unterminated)
- 1x H-250 type handset
- 1x User Manual
- 2x Earth straps

*Field wire not included (D-10 or P-274 up to 5km)*

## ACCESSORIES

**RIU to Radio Cables** (required): Contact **RapidM** for the appropriate cables for your radio models.

**Accessories:** Please contact **RapidM** for handsets / headsets and Accessory Information.

RIU HARDWARE		RIU ENVIRONMENTAL	
SIZE & WEIGHT	165 x 96 x 37 mm (w x d x h) 800 g	TEMPERATURE	Operating: -20°C to +60°C Storage: -40°C to +70°C
COLOUR	Light grey	IMMERSION	IP67: 30 min at 1m
EMI	EN 55022, EN 55024, MIL-STD-461E	ENVIRONMENTAL	MIL-STD-810G: Humidity, Shock, Vibration, Dust
RIU INTERFACES		DESCRIPTION	
2x WIRE LINE POSTS	FIELD WIRE: 2-Wire interface. D-10, P-274 or similar line. 5km maximum length.		
HANDSET (U-183)	Handset or Headset (D)MIC: 150 Ohm Coil, PHONES: 300 - 1,000 Ohm, PTT_IN (I), PTT_OUT (O), GND, HSET_SUPPL (15V)		
RADIO (P17N)	Audio (R1, R2, R3) : (D) AUD_TX 220mV 150Ω, (B) AUD_RX 220mV 150Ω , (H) AUD_COM, (C) PTT (open collector), (A) GND (G) Power (R1, R2, R3): Input to RIU, 6 – 36 VDC MIL-STD-1275 Vehicle Power & polarity protection.		
VOLUME	11 Position Volume Control		
SELECTOR	Mode selector switch: OFF, REM (Remote Control), ALL (All Radios), CALL (Call RCU), R1 (Radio 1), R2 (Radio 2), R3 (Radio)		
STATUS LEDs	Power indication, WIRE LINE connectivity indication, RADIO 1, RADIO 2, RADIO 3 connectivity indication, RCU call indication.		
SPEAKER	2x 4 Watt 8 Ohm internal		

RCU HARDWARE		RCU ENVIRONMENTAL	
SIZE & WEIGHT	165 x 96 x 41 mm (w x d x h) 800 g	TEMPERATURE	Operating: -20°C to +60°C Storage: -40°C to +70°C
COLOUR	Light Industrial Grey RAL9002	IMMERSION	IP67: 30 min at 1m
EMI	EN 55022, EN 55024, MIL-STD-461E	ENVIRONMENTAL	MIL-STD-810G: Humidity, Shock, Vibration, Dust
RCU INTERFACES		DESCRIPTION	
2x WIRE LINE POSTS	FIELD WIRE: 2-Wire interface. D-10, P-274 or similar line. 5km maximum length.		
HANDSET (U-183)	Handset or Headset (D)MIC: 150 Ohm Coil, PHONES: 300 - 1,000 Ohm, PTT_IN (I), PTT_OUT (O), GND, HSET_SUPPL (15V)		
ETHERNET (62IN8-4F)	(1) RX+, (2) RX-, (3) TX+, (4) TX-		
VOLUME	11 Position Volume Control		
SELECTOR	Mode selector switch: OFF, : REM (Remote Control), ALL (All Radios), CALL (Call RIU), R1 (Radio 1), R2 (Radio 2), R3 (Radio)		
STATUS LEDs	Power indication, WIRE LINE connectivity indication, RADIO 1, RADIO 2, RADIO 3 connection indication, RIU call indication.		
POWER	6 – 36 V DC, MIL-STD-1275E Vehicle Power & polarity protection.		
SPEAKER	2x 4 Watt 8 Ohm internal		

ORDERING INFORMATION	STOCK NUMBER	DESCRIPTION
RW3 Three-Radio Remote Set	RW3-TU-3RLC-VE1	RW3 Set: Remote 3 Radio, Loc, H250 EN V1

### USA DISTRIBUTION BY:

Cyntony Corporation  
195 Follen Road  
Lexington, Massachusetts  
sales@cyntony.com  
781-430-0675



Rapid Mobile Pty (Ltd)  
Tel: +27 12 349 0000  
Fax: +27 12 349 0010  
Email: info@rapidm.com  
Web: www.rapidm.com

Apex Corporate Park  
Quintin Brand Street  
Persequor Park  
Pretoria, South Africa  
0020



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