

REMOTE MONITORING AND CONTROL SYSTEMS (RMCS) FOR IMPRESSED CURRENT CATHODIC PROTECTION (ICCP) SYSTEMS



DATASHEET 1.18

RMRC



BAC Corrosion Control Ltd design and manufacture an extensive range of Impressed Current Power Supplies under our Infinity Power brand name.

To support our power supplies, we have developed a Remote Monitoring and Control Systems (RMCS) for ICCP systems, designed to ensure the proper functioning of system equipment and protection of steel structures from corrosion. The RMCS provides real-time data and control capabilities, allowing for efficient management and maintenance of cathodic protection systems.

We cater for a wide range of specifications and functionality requirements and work with our clients to provide reliable, value for money solutions that fit their specific requirements.

The screenshot shows a web-based interface for the RMCS. The main heading is 'TR DC Output Monitoring Overview'. Below this is a table with columns for TR Tag Number, Rated DC Output, DC V, DC A, and various potential and current readings (R1, R2, R3, R4, R5, R6, R7, R8). The table lists three entries: SMPS, TR01.1, and TR01.2. The SMPS entry shows a rated DC output of 24 V 6.25 A and various readings. The TR01.1 and TR01.2 entries show a rated DC output of 12 V 2 A and various readings. The interface also includes a search bar, a 'Show Only Online Devices' checkbox, and a 'Showing 1 to 3 of 3 entries' indicator.

TR Tag Number	Rated DC Output	DC V	DC A	R1	R2	R3	R4	R5	R6	R7	R8	Control Mode	Status	View
SMPS	24 V 6.25 A	0.919 V	0.25 A	2 mV	2 mV	2 mV	0 mV	-	-	-	-	Auto Potential R1	Online	
TR01.1	12 V 2 A	2.485 V	0.15 A	-3000 mV	-1358 mV	-	-	-	-	-	-	Constant Current Control	Online	
TR01.2	12 V 2 A	2.907 V	0.25 A	-3002 mV	-1362 mV	-	-	-	-	-	-	Constant Current Control	Online	

Sample Power Supply DC Output Monitoring Overview Screen

The RMCS is configured specifically to your project requirements and can monitor and control all your ICCP system hardware including:

- ICCP Power Supplies (PS) including:
 - BAC thyristor control Transformer Rectifier (TR units)
 - BAC Switch Mode Power Supply (SMPS Units)
 - *BAC Variac or Switched TR units
 - *Non BAC branded TR and SMPS units
- Junction Boxes
- Test Posts
- ER probes
- Auxiliary devices such as flow meters (Enquire if you have specific device monitoring requirements)

* Monitoring and DC switching only.

RMCS PC

The RMCS PC runs the latest Microsoft Windows professional operating system which is installed with BAC own Infinity Power Remote Monitoring and Control System. The PC can be supplied as standard desktop tower for installation in client building or we can supply industrial PC suitable for installation into the PS cabinet.



BAC

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Licensing

The RMCS Software license is supplied with the PC with no forward or perpetual licensing costs.

Every system comes with 12 months support**.

Extended support contracts past the initial 12 months can be set up directly with BAC.

The only forward costs associated with the system are:

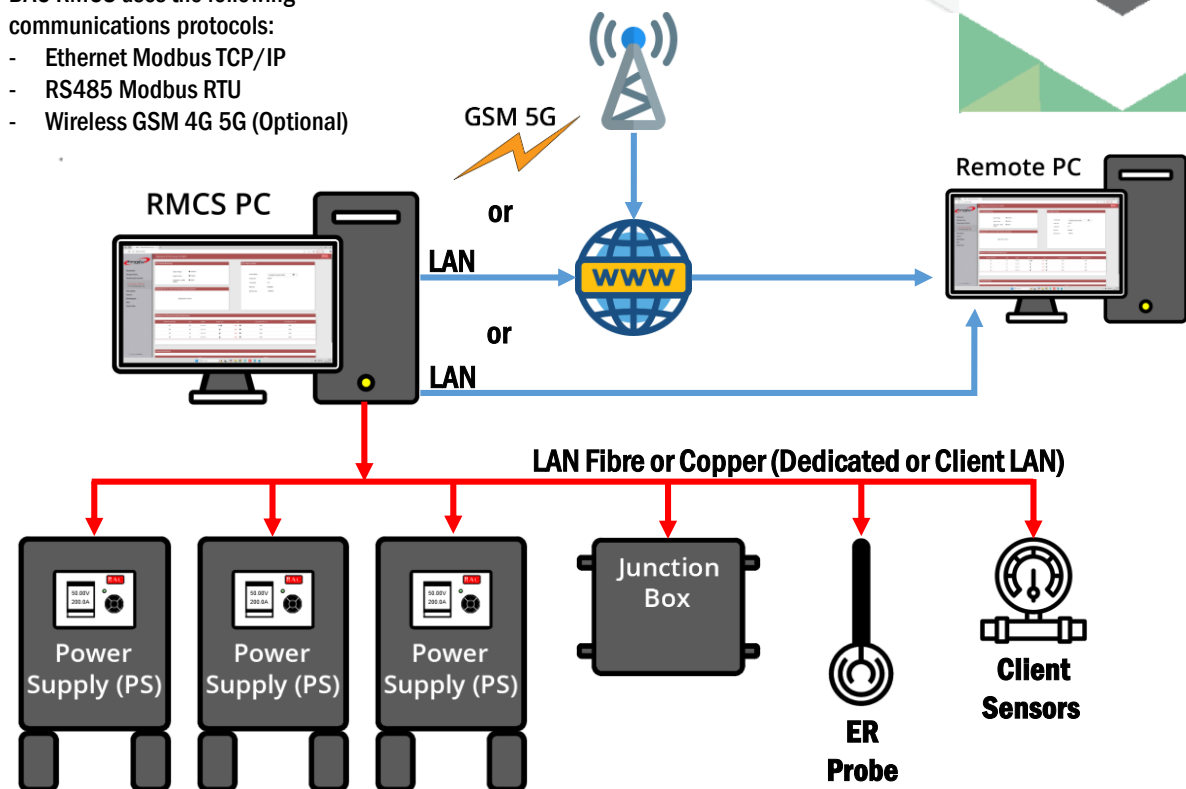
- Support contracts (Optional)
- Remote access i.e SIM contract or RDC (Optional)

**Limited Support.

System Communications

BAC RMCS uses the following communications protocols:

- Ethernet Modbus TCP/IP
- RS485 Modbus RTU
- Wireless GSM 4G 5G (Optional)



The RMCS can be accessed and operated remotely in the following ways :

- RMCS PC using a Web browser GUI
- Client PC, Any PC on the same LAN using a Web browser (Shown as remote PC above)
- Remote PC via the internet and remote desktop software

Note: Remote connection not required, PC can be supplied locked down for local access only to ensure client cyber security.

RMCS Software Features Include:

- User Manager
- Power Supply DC output Monitoring Overview page (Summary for operating condition of all system hardware)
- Power Supply Specific Screen (For full monitoring and control of all power supply parameters)
- DC Output Timer Interrupters (Options for GPS time, time server or no time sync)
- Alarms suite (Includes user set thresholds and alarms via Email notification)
- Datalogging programs including:
 - PS Coupon Instant Off
 - PS Depolarisation
 - PS Instant Off
 - PS Periodic Logging
 - Junction Box Logging (including AC/DC Logging and AC Corrosion Risk Management)
 - ER Probe Logging
- Document Section (For digital storage of all ICCP system documents)

Summary brochure only for full brochure contact BAC Sales Team: sales@bacgroup.com