

# PACSNET 200T RM

## Technical Specifications

**PACSNET 200T RM** is a unique new product combining detection of rotational movement by accurate digital compass and its transmission using secure low cost VHF wireless. Incorporating the benefits of an inbuilt 10mW 173MHz low power radio module, long life battery and simple communications set up, **PACSNET 200T** is self calibrating and ready to go out of the box.

Unlike existing systems using mechanical methods, 200T RM is not affected by temperature, wind or wobble in the mounting systems as it employs a totally non contact operation. Under certain operational conditions there may be no rotation to detect. If there is no rotation for long periods of time, a radio health check is performed every 5 minutes to confirm continued good operation.

- Lithium C Cell Power Unit
- Digital Rotation Detector
- 10mW 173MHz VHF Transmitter
- Address 4 switches
- Security Code 2 switches
- Radio Health Checks built into on air protocol



**PACSNET 200T RM** is designed for use in two system combinations:

### As part of a Small Works Alarm Package

**PACSNET 200T RM** is a key part of the Small Works Alarm Package and is used to detect and transmit the rotation of filter arms on biological filters. The unique Digital Compass Module detects movement through the earth's magnetic field and thus will work in any location. Generally mounted on the central boss the unit transmits a pulse for every rotation. This is received by the PACSNET Hub Unit which combines this information with other alarms from around the works to establish whether loss of rotation is a condition of flow or a true alarm. Refer to PACSNET 2000 or PACSNET 5000 Hub Data Sheets.

### As a replacement for existing mechanical monitoring systems linked into plant control

**PACSNET 200T RM** can also be used as a replacement for existing mechanical systems such as proximity switches or mechanical striker plates. In this mode, the rotation monitor transmits to a PACSNET 200R RM Receiver which can be field mounted or located in a pump station. The 200R RM which is dc powered will receive from up to 4 transmitters and output 4 volt free contacts each reflecting a pulse per rotation for each filter. The PACSNET 200R RM can be located at existing JBs on large plants and linked into existing cabling or be located actually in the site cubicle with other control equipment. For more details refer PACSNET 200R RM Data Sheet.

# Why use PACSNET 200T RM?

PACSNET 200T RM removes all the problems of unreliability associated with mechanical methods of filter rotation monitoring. It also uses the proven secure on air data format used extensively by PACSCOM throughout industry. This guarantees reliable operation even in difficult terrain or where obstructions might otherwise cause radio problems.

With the two optional receiver systems, any site can be cost effectively fitted with these devices and either linked into existing control networks or handled as part of an advanced small works alarm network.

Up to 16 x 200T RM units can be used on typical sites and by use of other PACSNET 3000 Family Radio Network products any number can be accommodated.

For ease of mounting an accessory kit is available.

Simple to set up and ready to go.

## Configuration

The unit requires four simple selections by switch to configure it to your operation. These are set on an 8 way DIL switch.

Unit Address	1 - 16	Sw 1 - 4
Multiple Cell Security Code	A-D	Sw 5 - 6
Rotation Direction - Clockwise or Anticlockwise	C/AC	Sw 7
On/Off	On/Off	Sw 8

## Technical Specifications

Power: Lithium C Cell

Inputs : Digital Rotation Detector

Radio - 10mW 173MHz VHF Transmitter (ETS 300-220 ) with Integral antenna - Range 500m typical.

Radio Set Up Address 4 switches. Security Code 2 switches. Rotation Direction 1 switch On/Off 1 switch

Radio Health Checks built into on air protocol.

Physical: Dimensions Height 375mm Diameter 60mm Weight 0,75Kgs

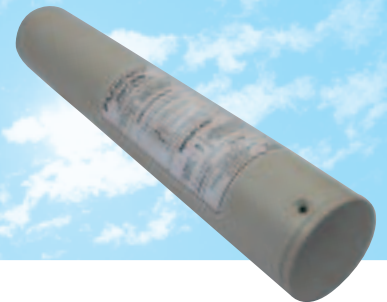
Enclosure IP 68 Polymer Moulded

Environmental: Operating -20 to 60 Deg C RH 05-95% non condensing.

Storage -20 to 70 Deg C

## How to order

Part No 02-279



For further information please contact our sales office

or

Your local distributor

# PACSCOM

## WIRELESS SOLUTIONS

Wood & Douglas Ltd  
Pacscm Division  
6 The Quadrangle  
Premier Way  
Abbey Park Industrial Estate  
Romsey SO51 9DL

Tel: 0118 981 1444  
Fax: 01794 511142  
sales@pacscm.com  
www.pacscm.com

