# **TRAVELLING BLOCK MONITOR**





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The very latest generation of Travelling Block Monitor (TBM) collision avoidance systems was launched in August 2016.

RCP travelling block monitor (TBM) is used to dynamically protect the blocks from crowning out and the elevators impacting with the drill floor. The TBM has been continuously improved for over 14 years, RCP launched the latest version of the system in 2016 with enhanced self-diagnostic features and operator interface.

The basic system is configured for an oilfield D.C drawworks fitted with an auxiliary brake and drum friction main brake. Once commissioned the system will automatically monitor the direction, speed, weight and position of the travelling block and maintain safe limits of operation for the blocks at all times. When required the system will automatically control the drawworks brakes, clutches and motors in order to safely slow and stop the travelling block assembly within pre-defined upper and lower limits of travel for any given weight.

RCP also supply PWM and SCR brake controllers and battery backup units for eddy current brakes



# **TBM SCREEN DESIGNATION**



#### Alarm Screen



System alarms are displayed here showing date and time stamp and identifying hardware failure.

#### Maintenance Screen 2



Maintenance screens are used to test and fault find digital outputs as well as analogue inputs.

#### System Setup



Sequential instructions with diagrams are used to setup and reset the system easily.



**Maintenance Screen 3** 

Maintenance screens are used to check and configure the anti collision points of the TBM system.

### **Event Logging**



The TBM event logger continuously monitors and logs travelling block and brake control parameters.

### Maintenance Screen 1

Digital Inputs		
ACS Zone 1 Input	Accept Pushbutton	
ACS Zone 2 Input	Reset Pushbutton	
ACS Zone 3 Input	Override Pushbutton	
ACS Zone 4 Input	E-Stop Pushbutton	
ACS Zone 5 Input		
ACS Zone 6 Input	Fibre Switch Fault	ALL MED A
ACS Zone 7 Input	Barrier Rail Fault	
ACS Zone 8 Input	Mainbrake Feedback	
Block Retract Input	Dethrottle Feedback	
Height Sensor Count	+18192	
Check Pulse Count	+1137	Back
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Maintenance screens are used to check the status of digital inputs and encoder sensors.

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