

PIPELINE WALL CONDITION ASSESSMENT: BROADBAND ELECTROMAGNETIC (BEM)

BEM is a patented technology for main ferrous assessment. The nondestructive testing method investigates cast iron, ductile iron and steel pipelines of all diameters. The technology identifies loss of metal as little as 1mm through corrosion, abrasion or graphitization. It can be used externally or internally, and also detects cracks and other flaws. BEM has been in operation for over 20 years by Rock Solid Pty. The Australian company and PPM partner has extensive experience with nondestructive assessment of cast iron and other ferrous piping.



- + EFFECTIVE TOOL FOR PIPES ACT 2020 COMPLIANCE
- + SURVEYS THROUGH THICK COATINGS AND LININGS SUCH AS EPOXY, CEMENT MORTAR, PLASTIC OR CONCRETE
- + OFTEN REDUCES INSTALLATION COSTS
- + PIPES OF ANY SIZE FROM 110MM (4 INCHES) DIAMETER UPWARD CAN BE INVESTIGATED
- + BETTER THAN ALTERNATIVES SUCH AS ULTRASONICS

MONITOR THE INTEGRITY OF FERROUS PIPELINE WALLS



FLEXIBLE ARRAY SCANNING TOOL (FAST) EXTERNAL FERROUS WALL CONDITION ASSESSMENT

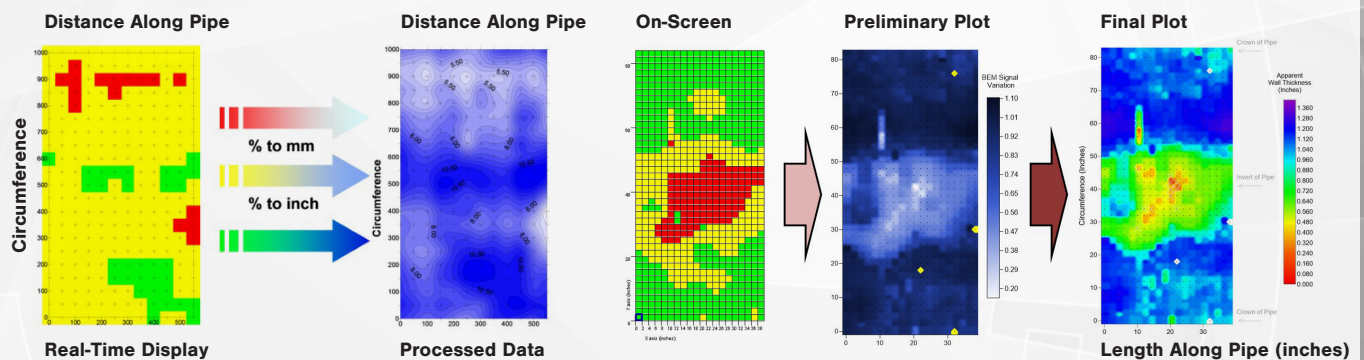
Ideal for external pipe wall condition assessments carried out on all types of ferrous pipelines to explore the integrity on pipe diameters from 2" and upwards. The pipe wall is scanned externally and pipe wall integrity is determined without interrupting the pipe flow or disrupting gas service.

IN-LINE INTERNAL FERROUS WALL CONDITION ASSESSMENT

Internal pipe wall condition assessments can be undertaken on any pipe from diameters 4" and upwards. Tunnels with diameters of greater than 20ft have been investigated. Continuous data can be recorded along extensive lengths of buried pipelines. Pressure pipelines require brief interruption of operation to gain access.



REAL TIME WALL THICKNESS RESULTS



Data is processed in a number of ways with initial readings and in depth data analysis. In the heat map, green areas have 90% wall thickness in tact, and red shows areas of concern.

Post survey data processing allows an easily understood and accurate presentation of results.