

A High Stability Intensity Monitoring System for the ISIS Extracted Proton Beam, M.A. CLARKE-GAYTHER, Rutherford Appleton Laboratory, U.K - A description is given of the extracted proton beam intensity monitoring system on the high intensity pulsed neutron source, ISIS, at the Rutherford Appleton Laboratory. The system, consisting of six resonant mode toroidal beam current monitors, and signal conditioning electronics, measures protons per pulse in the range $2 \cdot 10^{10}$ - $4 \cdot 10^{13}$ p.p.p. with good linearity, and has shown excellent long term reliability and calibration stability.