Wide **Extracted** Beam **Intensity** Range Measurement at the IHEP Proton Synchrotron, A.G. AFONIN, V.N. GRES, V.I. TEREKHOV, IHEP, Protvino - To measure the beam intensity in the range 1⁸ - 3¹³ ppp for slow and nonresonant slow extraction, we have developed a new technique, based on a secondary emission chamber as a monitor followed by a Current-to-Frequency Converter (CFC). The monitor is composed of 5 signal electrodes sandwiched by collector ones. Each electrode is made of a Kapton film, on both sides of which aluminium is sputtered. This causes low amount of substance to be placed in the beam path (about 10 mg/cm*cm per monitor). To process the monitor signal varied over such wide range the CFC with the conversion ratio of 1 Hz/pA is used. This paper describes the monitor, electronics as well as calibration procedure.