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On-line gas mixing and multi-channel distribution system

In this presentation, we describe a Mass Flow Controller based on-line gas mixing unit with multi-channel channel distribution system. We highlight different aspects such as requirement, design, calibration, control and operation of this system. This unit has the capability to mix up to four different input gases and distribute over 16 output channels. Output in individual channels is controlled accurately using capillary based system. At present, we are using this gas mixing unit for prototype of Iron Calorimeter (ICAL) detector of India-Based Neutrino Observatory (INO).

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