

2)

Approach:

I am using a 15V Power Supply designed using 12-012 (or) 24V 3A transformer, LM7815 Voltage regulator.

which provides a 15V supply throughout the circuit.

The output from ~~to~~ EC-FX sensor current proportional to conc. of NH_3 is converted to digital voltage.

This voltage is compared to reference voltage calibrated using 10k potmeter attached to comparator.

If the value is larger than reference voltage, the signal is put high by the Comparator and buzzer starts indicating presence of Ammonia.

and if the voltage is less, the signal is kept low by comparator. and the circuit remains undisturbed.

Components:

LM393 Dual Comparator

ECFX Sensor.

10K potmeters

Op Amp 741

PCB Board.