

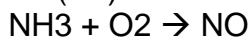
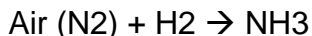
Gasmeter™ in process monitoring – applications:

Percent level NOx - measurements

Nitric acid manufacturing

The process

Nitric acid is manufactured from nitrogen in air. The chemical reaction is:



Use

Nitric Acid is used as an intermediate for

- Fertilizers (main use)
- Explosives, dyestuff, pesticide, pharmaceuticals, photographic materials, plastics, pigments, synthetic fibers, etc.

Measurement need

The process control for ammonia oxidization at Nitric acid manufacturing plants.

The Gasmeter™ solution:

Gasmeter FCX process gas analyzer:

FCX-1 (NO)

FCX-2 (NO, NO₂)

FCX-3 (NO, NO₂, H₂O)

FCX-8 (NO, NO₂, H₂O, N₂O, CO₂, CO, NH₃)

Sample cell:

Single pass 1-10 cm

Measuring ranges

High volume - percent

Typical NO 0-20 Vol-%, NO₂ 0-5 Vol-%

