

ST-I-LON Smoke detector for LONWORKS

Ionisation Detector

CE 6.1.6.8.E-P



- Less nuisance alarms
- Environmental compensation alarm
- Adresserable
- Simple moutage
- Bus systems simple installation
- No control unit
- Power supply from the bus cable gives less installation cost.

TECNICAL DATA:

Neuron:	3120 10MHz
Tranciever:	LPT-10 78kb/s
Power supply:	Via the bus
Normal current:	max 6mA
Ambient air temperature:	-10°C to 50°C
Max. humidity:	99% rF
Max air speed:	15 m/s
Radioactive source:	Americium 241
Activity:	less than 0,9 µCi (max 33 kBq)
Sensitivity:	According to EN-54-7
Weight:	ca 180 g
Materiel: Detector module:	White PC
Base:	White PC
Service Alarm level:	Indication by red LED
Fire Alarm level:	Indication by red LED

FUNCTION:

The ion smoke detector gives an early warning of a starting fire. It is designed to detect smoke particles of a fire before open flames can be seen. The sensitivity can be set via the Lon Work bus.

The ST-I-LON detector is based upon the double chamber principle, where the open chamber monitors the smoke particles in the air and the closed reference chamber is compensating for changes in the atmosphere, i.e. air pressure, humidity and temperature.

Alarm is obtained when smoke particles are present in the open chamber. The alarm is indicated by a red LED on the detector, and the alarm status continues until manual reset is made on the control unit. The ion detector is used everywhere an early warning of a starting fire is required, i.e. archives, libraries, computer rooms, storage rooms, corridors etc.

The detector design provides strong immunity to air velocities, contamination and RF interference.

The ST-I-LON detector is connected directly onto the LonWork bus. It gets its power from the bus (LPT-10). It is compatible with FTT-10 and can thereby be connected in free topology of Lon Works to any computer central.

Because of the built-in micro processor the detector can use the intelligence to analyse the analogue signal and thereby prevent nuisance alarms.

ENVIRONMENTAL COMPENSATION:

The detector compensate for environmental changes such as dirt build-up and temperature or humidity fluctuations occuring over time that might otherwise trigger a false alarm. This also means that the alarm level is adjusting itself over time so that the detector always has the correct sensitivity.

