

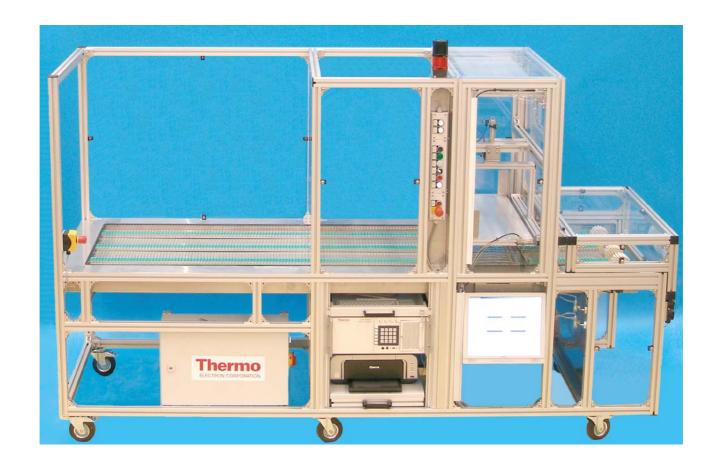
FHT 1320 series Laundry Monitors

The world leader in serving science

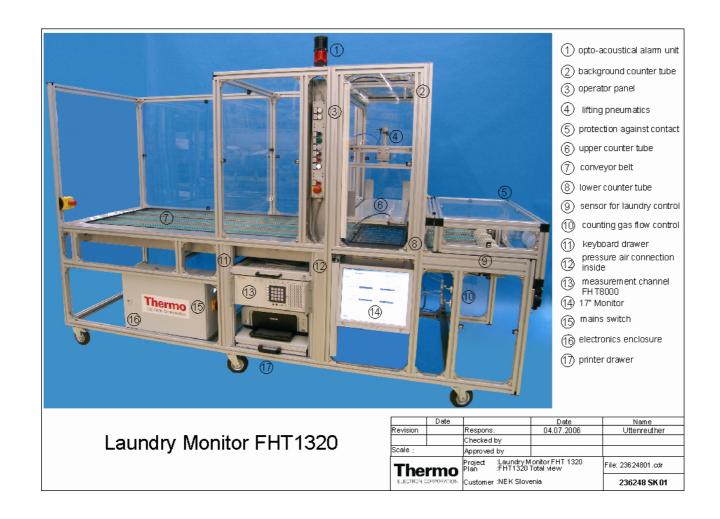


- Laundry Monitors of the FHT 1320 family
  - FHT 1320 alpha-beta monitot
  - FHT 1320 SZ gamma monitor
  - General modular design

## FHT 1320 ( $\alpha$ / $\beta$ contamination detection)



#### FHT 1320 – Description of components

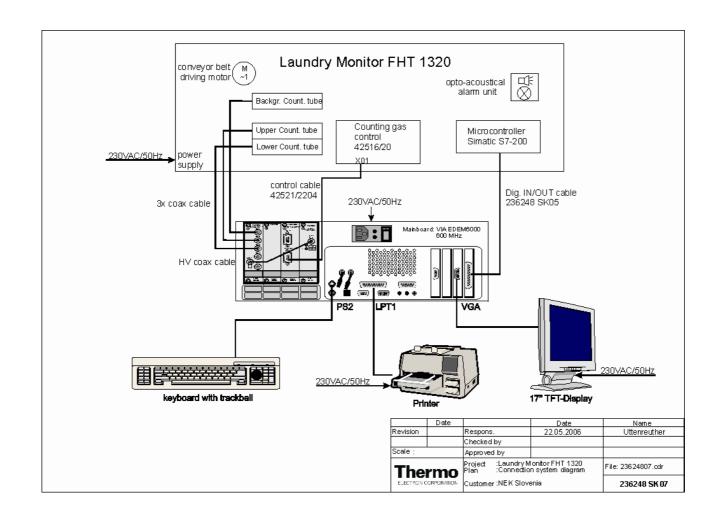


#### FHT 1320 – Features

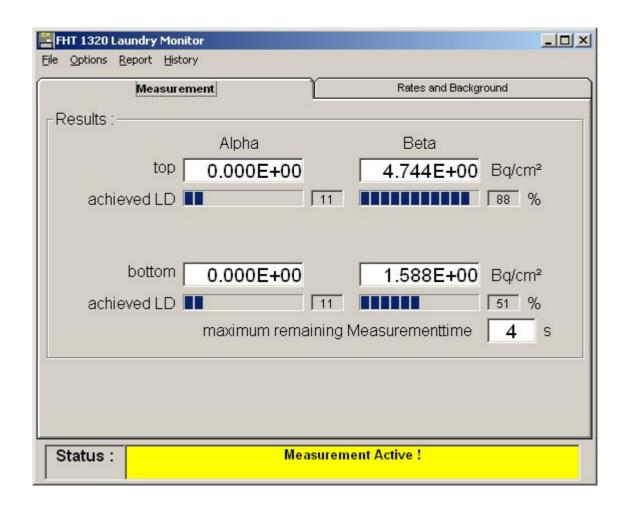
- automatic release measurement of a/b-contaminated laundry
- limit of detection:
  - α contamination: 0.05 Bq/cm2 (other values presettable)
  - ß contamination: 0.5 Bq/cm2 (measuring time varying with efficiency and background)
- automatic continuous update of background by additional detector
- one detector above and one below conveyor grid chain
- large area proportional counter tubes (ArCH4 90/10)
- measuring electronics FHT 8000 A
- integrated software for the evaluation of all count rates applying the relevant statistical criteria.
- interfaces to VGA-display, keyboard, mouse, printer and network
- step-mode operation



## FHT 1320 – Block diagram



#### FHT 1320 - Program

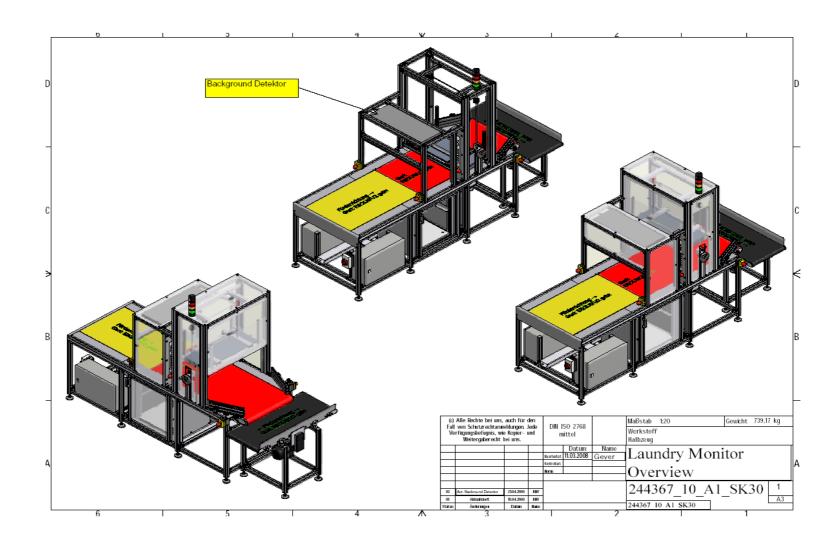


# FHT 1320 SZ (γ contamination detection)

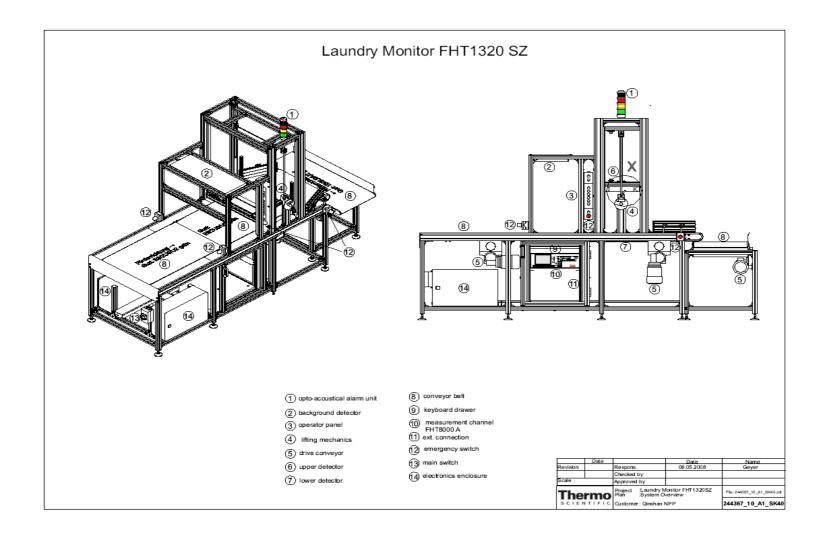




### FHT 1320 SZ – Description of principle



### FHT 1320 SZ – Description of components



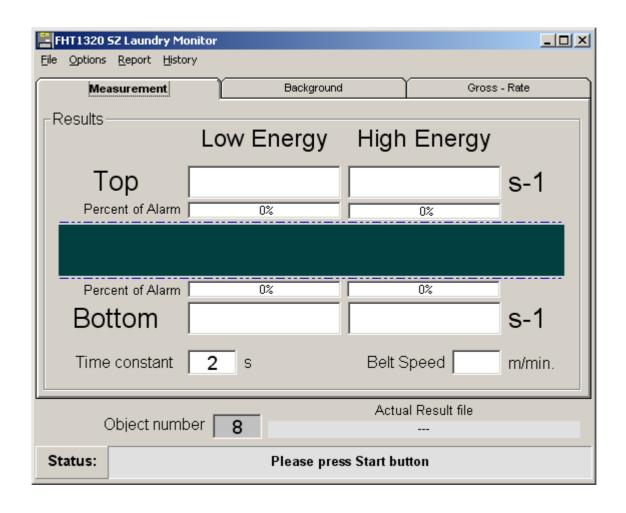
#### FHT 1320 SZ - Features

- automatic release measurement of γ contaminated laundry
- automatic separation of contaminated objects
- limit of detection:
  - 3900 Bq at 1µSv/h Co60 background
- automatic continuous update of background by additional detector
- conveyor belts made of polyurethane elastomer (PUR) easy to de-contaminate
- double detector assembly, one above, one below conveyor
- large area scintillation plastic detectors
- programmable logic control for the conveyor drives
- frequency inverters for motor speed control
- height adjustable support frame, extruded aluminum profiles

#### FHT 1320 SZ – Features (2)

- object sensor
- emergency switch off
- signaling beacon
- operator control panel
- measuring electronics FHT 8000 A
- integrated application software FHT1320SZ.exe
- interfaces to VGA, keyboard, mouse, printer and network
- continuous (forward) flow operation mode

### FHT 1320 SZ – Program



#### FHT 1320 family – Modular approach

Virtually any combination of the features of the FHT 1320 and FHT 1320 SZ shown before can be chosen to build a customer specific Laundry Monitor

#### Modules

- $\alpha/\beta$  or  $\gamma$  detectors
- with or without separate background detector
- with or without lead shielding
- grid chain or solid PUR belt
- constant speed or speed control
- step mode or continuous flow operation mode
- fixed height, manual or electrical height adjust for upper detector
- with or without automatic separation of contaminated laundry

