

# FHT 6020 GN

## Controller for Gamma Neutron Area Monitoring



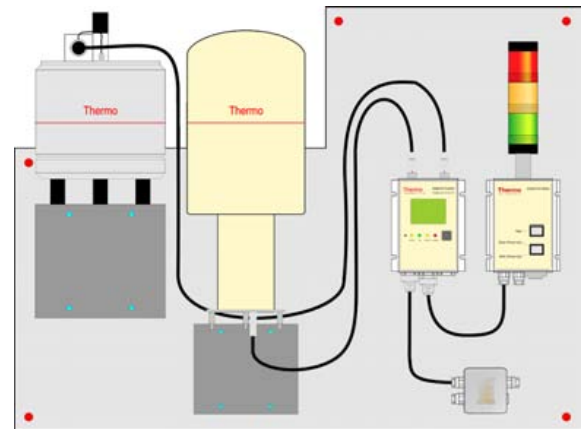
The Thermo Scientific™ FHT6020 GN Area Neutron/Gamma Controller has been developed to **measure neutron and gamma** dose and dose rates.

### Key Features of FHT 6020 GN Controller

- Large four-decade logarithmic display in dose rate with a third channel for summation of total gamma and neutron dose
- EMC compliant to EN 61000-4-3, EN50081 part 1 and 2
- Computer programmable configuration and alarm setting
- Built-in measured date memory
- Optional installation kit and mounting plates
- Optional remote alarm unit Possible detector options
- Gamma dose rate 0.1  $\mu\text{Sv/h}$  to 10 Sv/h depending on selected detector variant
- Neutron dose rate 1 nSv/h to 100 mSv/h
- Neutron dose from thermal to 5 GeV energy response

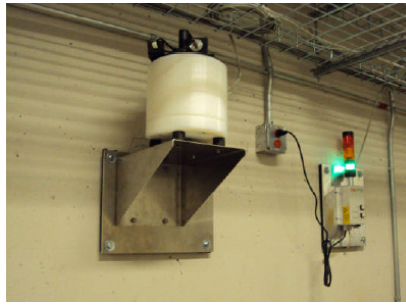
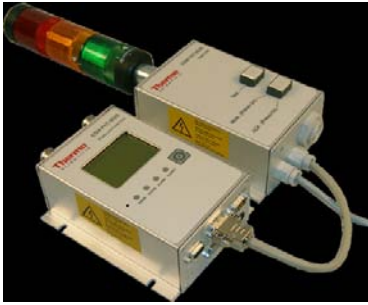
### Possible detector options

- Gamma dose rate 0.1  $\mu\text{Sv/h}$  to 10 Sv/h depending on selected detector variant
- Neutron dose rate 1 nSv/h to 100 mSv/h
- Neutron dose from thermal to 5 GeV energy response



A sum channel using the Wide Energy Neutron Detector WENDI FHT762 in conjunction with an assortment of gamma dose rate probes is as well provided. The complete monitoring instrument consists of gamma and neutron detector, preamplifier, display processing unit and a remote light tower with audible alarm to 90 dB along with mounting plates for installation.

# FHT 6020 GN



## Neutron detectors

### Wide energy neutron detector FHT 762 WENDI

Measuring range (Cf-252)	1 nSv/h to 100 mSv/h
Energy Range	Thermal to 5 GeV according to ICRP 60
Dimensions / weight	ø 230 mm x 340 mm [ø 9.1" x 13.4"] / 13.5 kg [29.8 lb]

### High sensitivity neutron detector FHT 752 SH-2

Measuring range (Cf-252)	0.01 - 100,000 cps
Filling gas	He-3, 2 bar
Dimensions / weight	ø 50 mm x 385 mm [2" x 15.2"] / 0.8 kg [1.8 lb]



## Gamma detector choices

### FHZ 632 L-10 wide gamma energy range proportional counter

Measuring range (Cf-252)	100 nSv/h to 100 mSv/h [10 µR/h to 10 R/h]
Energy Range	30 keV to 4.4 MeV
Dimensions / weight	ø 35 mm x 162 mm [ø 1.4" x 6.4"] / approx. 0.2 kg [0.4 lb]



### FHZ 612 L-10 wide dose rate dual GM-counter

Measuring range (Cf-252)	0.1 µSv/h to 10 Sv/h
Energy Range	60 keV to 3 MeV
Dimensions / weight	ø 34 mm x 200 mm [ø 1.4" x 7.9"] / approx. 0.2 kg [0.4 lb]



### FHT 192 sensitive wide range ionization chamber - suitable for pulsed radiation

Measured variable	Ambient equivalent dose rate H*(10)
Measuring range (Cf-252)	100 nSv/h - 1 Sv/h
Energy Range	30 keV - 7 MeV (± 30 %)
Dimensions / weight	ø 208 mm x 500 mm [ø 8.2" x 19.7"] / 3.25 kg [7.2 lb] incl. polystyrene cap

