



Digital dosimetry services

The next generation of dosimetry

NetDose Pro digital dosimetry solution



NetDose Pro digital dosimetry



Customizes seamlessly to your facility needs, eliminates the need to collect and redistribute badges and simplifies investigations with to the minute exposure information.



Improved safety

Real-time on-demand and traceable dose reading



Cost savings

Less labor saves administrative time & money



Low risk of lost data


No badge exchange or shipping logistics



Seamless customer experience

User-friendly administrative software and intuitive website

Passive dosimetry service

- ✗ User wears badges for month or quarter
- ✗ User replaces badge so it can be read
- 

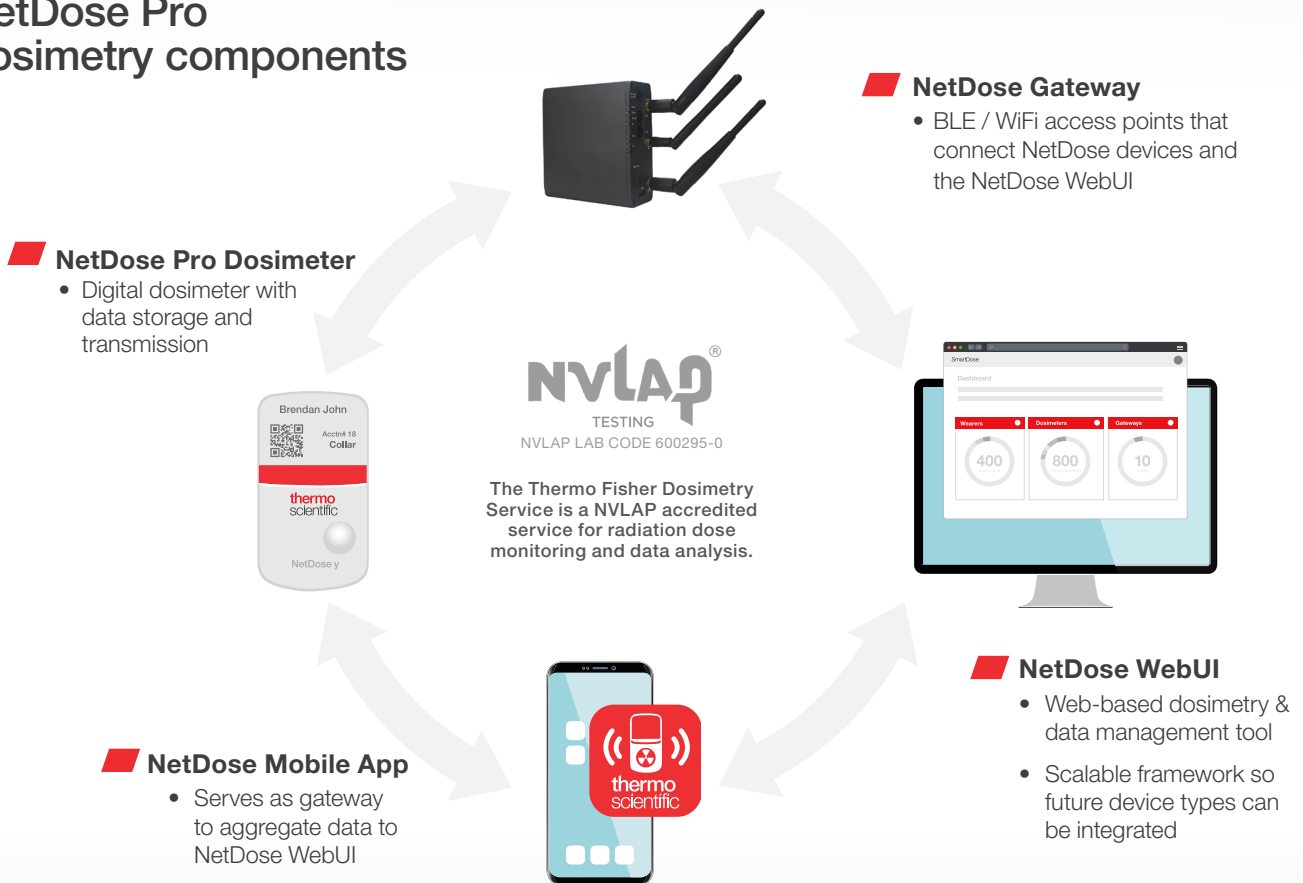
Process repeats monthly or quarterly indefinitely
- ✗ Badges mailed for reading
 - Risk of lost badges
 - Added fees for late and lost badges
- ✗ Reports mailed to administrators
- ✗ Exposure issue identified months after it occurred
- ✗ Time lost due to employee exceeding dose

NetDose Pro digital dosimetry

- ✓ User wears badges indefinitely
- ✓ Badges are automatically read, real-time
- ✓ Exposure issue identified immediately after it occurred
- ✓ No employee time lost as correction action can be immediately taken

“NetDose Pro is a disruptive solution for real-time personal dose monitoring, improving safety and reducing cost.”

NetDose Pro dosimetry components



NetDose Pro Dosimeter

- Saves radiation dose information.
- Programmed to transmit dose history on a scheduled interval. The read schedule is configurable on WebUI.
- Can also be read on-demand by pressing the read button.
- Does not store any customer or wearer personal information.
- The Gateway or the Mobile App communicates dose information to the WebUI.

- Can communicate with a gateway that is within 50 feet (direct line of sight). The range for a dosimeter to communicate with a Mobile App range depends on the mobile phone.*
- NetDose is currently only configured to measure gamma radiation.

*Relies on BLE wireless technologies. Other strong radio signals nearby can interfere in the wireless technology. Heavy steel (elevator shaft) in between the dosimeter and the gateway can also reduce the wireless range.



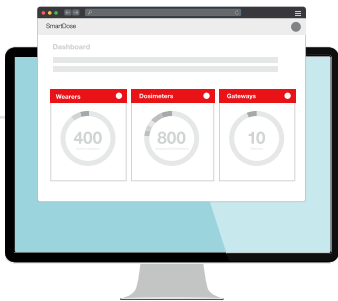
NetDose Gateway

The Gateway Reader is a BLE 5.0 IoT gateway that aggregates dose information from connected NetDose Dosimeters, transferring the data to the servers (AWS IoT Core).

- Constantly monitors to discover dosimeters.
- Once a dosimeter is discovered, the gateway connects to the dosimeter, and reads all required dose history data from dosimeter and writes any new configuration for the dosimeter from WebUI. If a new

firmware is available for the dosimeter, the gateway also performs the firmware upgrade on the dosimeter.

- Responsible for synchronizing the time on the dosimeter during the BLE session.
- Requires an AC power source to operate. Installation of an AC power source should be planned before the gateway installation.
- Online status can be checked on the WebUI using the Administrator login.
- Connect to network using Ethernet or WiFi. Ethernet is recommended. Cellular is an option with additional cost responsibility of the customer.



NetDose WebUI

- Manage accounts via locations and departments
- Create users

- Assign dosimeters to wearers
- Monitor received radiation
- Generate required reports



NetDose Mobile App

- Serves as gateway to aggregate data to WebUI

- Administration of the accounts and reporting is not currently available on the app



NetDose WebUI Roles

Administrator

- Management of the dosimetry system: create users, assign dosimeters, upload software, etc.
- Has access to all data and operations in their account.

Supervisor

- Assigned to users who need to monitor received radiation of their subordinates.

- Can assign dosimeters to users in their department and view and generate reports related to users' radiation dose information.

- May also wear dosimeters.

Wearer

- Assigned to users that need to record occupational radiation exposure from their work environment.
- Can only see information on their received radiation.

Learn more at thermofisher.com/netdose