Specifications

Model	M3813A
Type	• Internally powered equipment •  Type B applied part • IPXO Ordinary Equipment • Continuous operation
Audio	Voice readout of weight, prompts, and 3 volume settings, plus silence.
Display	• Digital, 0.7” (18 mm) character height • Weight displayed and announced simultaneously
Measurement range	66 to 330 lbs. (30 to 150 kg)
Accuracy	±1% ±1.1 lbs. (.5 kg)
Display units	Pounds or kilograms, user-selectable
Maximum allowable weight	330 lbs. (150 kg)
Grab bar and column	Removable attachment
Power source	Four type AA (1.5 volt) alkaline batteries connected in series (6.0 volts), included
Battery life	Approximately 6 months with daily measurement

Specifications

Operating environment	• 50º to 104º F (10º to 40º C) • 85% relative humidity • Atmospheric pressure 572 - 1013 hPa (0 - 15,000 feet or 0 - 4,600 meters of altitude) • WARNING: This equipment is not suitable for use in the presence of flammable anaesthetic mixture with air or with oxygen or nitrous oxide.
Transport and Storage environment	• 15º to 130º F (-9º to 54º C) • 85% relative humidity • Atmospheric pressure 572 - 1013 hPa (0 - 15,000 feet or 0 - 4,600 meters of altitude)
Dimension (approx.)	• Height including column attachment: 40-7/8" (104 cm) • Length: 19-3/8” (49 cm) • Width including grab bars: 20" (51 cm)
Weight (approx.)	With column and batteries - 15 lbs. (6.8 kg)

Electromagnetic Compatibility

The electromagnetic compatibility (EMC) validation of the M3813A Scale included testing performed according to the international standard for EMC with medical devices. See the Manufacturer's Declaration for details.

Electromagnetic Compatibility Testing

During the test program, the Scale was subjected to many EMC tests, including both international standard and Agilent proprietary tests. During most of the testing no anomalies were observed. For one of the tests, EN 61000-4-3 Radiated Immunity, reduced performance was observed.

EN 61000-4-3 specifies that the product be subjected to a field of 3 Volts/meter over a frequency range of 26 to 1000 MHz with no degradation of performance or loss of function below the performance level specified when equipment is operated as intended. At many of the test frequencies over the specified range, no anomalies were observed. However, at a number of test frequencies, radio communications from the Scale to the M3812A Home Hub was disrupted. These reduced levels are as low as 0.04 V/m in the range from 800.732 MHz to 977.035 MHz. In addition, change in measured weight was excessive at some frequencies. These reduced levels are as low as 0.42 V/m at 32.998 MHz in the range from 26 MHz to 1000 MHz.

The phenomena discussed above are not unique to this Scale, but are characteristic of medical and radio instrumentation in use today. The Home Hub is a radio receiver and its reception can be degraded by electromagnetic interference. Sensitive high gain circuits used in measurements can be affected by electromagnetic interference.

Electromagnetic Compatibility

Avoiding Electromagnetic Interference Problems

Eliminating the source of interference or moving it away can prevent electromagnetic interference. Possible sources of interfering radio frequency radiation are cellular telephones, cordless telephones, or other products that contain radio transmitters. The Scale has a Radio Test Button that sends a reduced strength test radio signal to the Home Hub, which sounds an audio tone if the test signal is successfully received. This test can be used to determine whether sources of interference are present. These sources can be turned off or moved away to reduce their strength and reduce interference. In addition, the Scale and the Home Hub can be placed closer to each other so that the radio transmission from the Scale to the Home Hub has less distance to travel and interfering radio signals have less effect. The radio transmission from the Scale is repeated periodically so that an intermittent source of interference should only delay reception.

FCC Regulations

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instructions, it might cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the Home Hub.
- Increase separation between the measurement devices or the Home Hub and the device being interfered with; e.g., the television.
- Consult your Health Care Provider.

Note: Any changes or modifications to the equipment that are not expressly approved by Agilent could void the user's authority to operate this equipment.