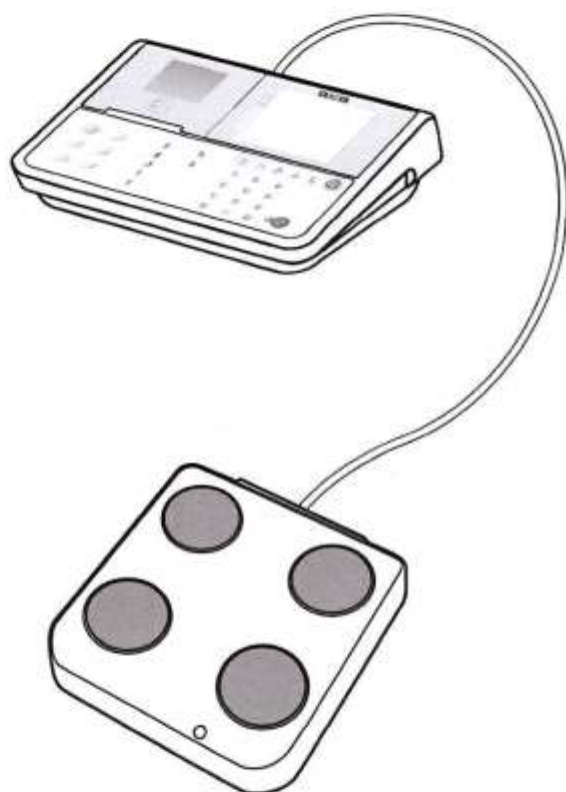


BODY COMPOSITION ANALYZER

1.1 **DC-430MA III**

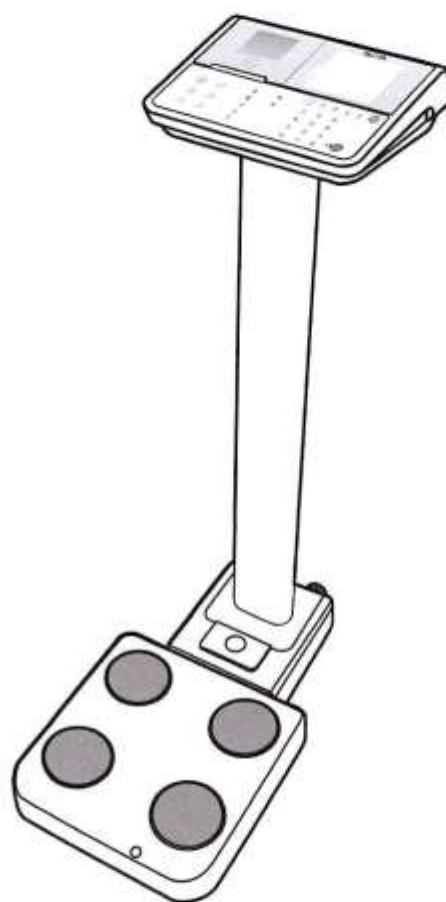
Instruction Manual



REMOTE DISPLAY VERSION
DC-430MAS

<Usage Conditions>

Temperature Range	: 5°C to 35°C
Relative Humidity Range	: 30% to 80% (non-condensing)
Max Altitude	: 2,000m ASL
Atmospheric Pressure Range	: 86kPa to 106kPa



COLUMN MOUNTED VERSION
DC-430MA

1.1

<Storage Conditions>

Temperature Range	: -10°C to 60°C
Relative Humidity Range	: 10% to 90% (non-condensing)
Atmospheric Pressure Range	: 70kPa to 106kPa

To avoid malfunctions, avoid storing the equipment in a place with direct sunlight, significant temperature changes, a risk of dampness, a large amount of dust or a risk of vibration or impact, or in the vicinity of flames.



Please read this Instruction Manual carefully and keep it for future reference.

DC 430 MA

Dual Frequency Body Composition Monitor with Integrated Printer



- 1.1 Featuring Dual Frequency BIA technology, the DC430 MA delivers full body composition analysis in 15 seconds.
- 1.5 Results are instantly shown on the easy-to-read LCD screen, and the integrated printer automatically prints the composition measurements together with a top line analysis. For large collection and convenience, all units can be stored on the SD Card for future use.
- 1.3 Combined with GMon Pro Software, the DC430 MA allows you to conduct client trend analysis, health risk assessments and full data management. In addition, the DC430 MA has been accredited with the accuracy grade MDD Class II-a and NAWI Class III allowing use for medical consultations.
- 2

Measurements

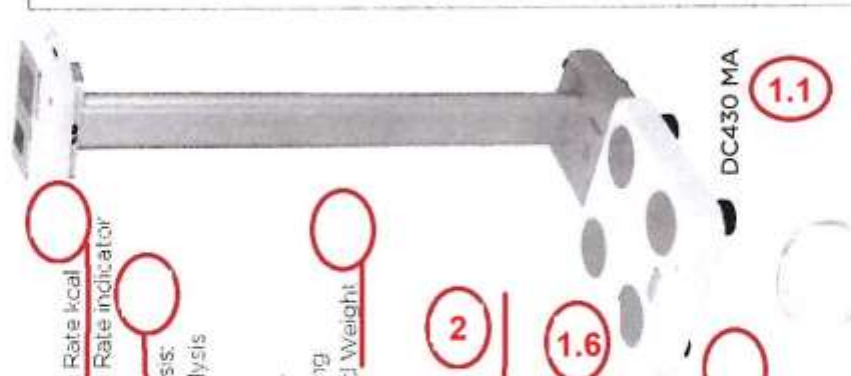
- Body fat %
- Fat mass kg
- Fat free mass kg
- Muscle mass kg
- Total Body Water %
- Body mass index
- Bone mass kg
- Physique rating
- Visceral fat rating
- Basal Metabolic Rate kcal
- Basal Metabolic Rate indicator
- Metabolic Age
- Print Out Analysis:
 - Body Fat Analysis
 - Muscle Mass Indicator
 - BMR Indicator
 - Physique Rating
 - Target: BF and Weight

Technical Specification

Accuracy grade	MDD CLASS II-a, NAWI CLASS III
Age Range	5 - 99 years
Weight Capacity	270kg
Graduation	100g
Product Dimensions (P)	360 x 360 x 1970
Product Dimensions (S)	360 x 360 x 94
Product Weight	(P) 13.5kg (S) 71g
Power Source	AC 100 - 240V
Interface	RS232, USB, SD CARD

At a glance

- 2 ACCURACY GRADE: MDD Class II-a, NAWI Class III
- 1.1 Full body composition analysis provided in 15 seconds using clinically accurate Tanita Dual Frequency BIA Technology
- 1.5 Integrated printer provides instant read out of results with topline analysis.
- 1.4 Results automatically stored on the SD Card, sent to a PC or printed.
- 1.4 GMon Pro Software compatible, allowing trend analysis, health risk assessments and full data management.
- 1.6 Max weight capacity 270kg with 100g accuracy



DC430 MA



DC430 MAS

Accessories



TP 301 Paper Rolls

Compatible Software



Part names & Connection Procedure

GB

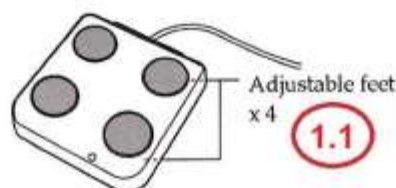
Before Use

Remote display version

Control Box

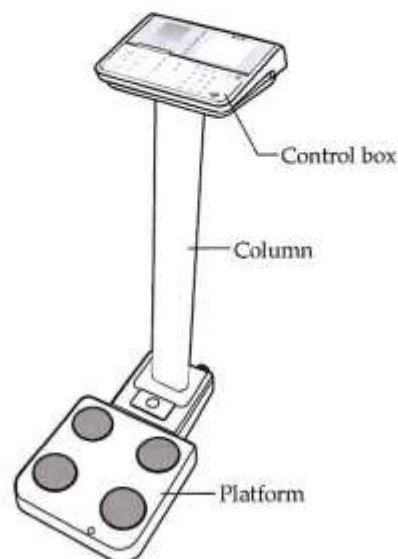


Platform



Type BF applied part - platform

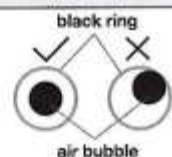
Column mounted version



Type BF applied part - platform

Checking the level

- * For accurate measurement, place the equipment as level as possible.
- * Rotate the adjustable feet in 4 positions for adjustment so that the bubbles of the level gauge reach the centre.



Status when the level gauge is viewed from above

Symbols and their Meanings

	Positive polarity		Direct current
	Alternating current		Type BF applied part - Platform
	Input, Output		WEEE - Waste Electrical and Electronic Equipment Directives
	Caution Refer to the attached notes.		For indoor use only
	SD card		See the instructions
	Serial interface		Manufacturer
	Serial number		Class II Equipment
	Conformity with Medical Device Directive 93/42/EEC		

*The SD logo is a registered trademark of the SD Association.

Accessories

- ☒ This manual
- ☐ AC adapter



- ☐ AC cord



- ☐ Printer paper



2

In the Case to Select the Print Item Preset "Body Composition Analyzer - full - Standard"

1.4

Category name —

Weight —

- Measured weight.

Fat mass —

- Total weight of fat mass in the body.

Muscle mass —

- Bone-free lean tissue mass (LTM)

TBW % —

BMR* —

- Basal Metabolic Rate represents the total energy expended by the body to maintain normal functions at rest such as respiration and circulation.

Visceral fat rating* —

- Visceral fat rating feature indicates the rating of visceral fat.

Ideal body weight* —

- Ideal body weight is a value for which the BMI is 22.

Degree of obesity* —

- Calculated as $(\text{weight} - \text{Ideal body weight}) / \text{Ideal body weight} \times 100$.

Bioelectrical data —

- The Resistance Reactance table indicates measurements for the impedance flow at each of the two dual frequency signals.

TANITA
BODY COMPOSITION ANALYZER
DC-430MA
26/JAN/2015 20:59

INPUT
ID No. 000001234567890
BODY TYPE STANDARD
GENDER MALE
AGE 35
HEIGHT 180 cm
CLOTHES WEIGHT 1.5kg

RESULT
WEIGHT 83.0kg
FAT % 25.0 %
FAT MASS 21.5kg
FFM 61.5kg
MUSCLE MASS 56.4kg
TBW 46.4kg
TBW % 56.3 %
BONE MASS 5.1kg
BMR 7596 kJ
METABOLIC AGE 50
VISCERAL FAT RATING 6
BMI 25.6
IDEAL BODY WEIGHT 71.3kg
DEGREE OF OBESITY 16.4 %

DESIRABLE RANGE
FAT % 8.0 - 10.0 %
FAT MASS 5.3 - 15.3kg

TARGET
TARGET BF% 16 %
Predicted weight: 72.4kg
Predicted fat mass: 10.9kg
FAT TO LOSE: 10.6kg

Consult your physician before beginning any weight management program. Tanita is not responsible for determining your target BF%.

INDICATOR
*FAT %
- | 0 | + | ++
*BMI
- | 0 | + | ++
*VISCERAL FAT RATING
113
*MUSCLE MASS
- | 0 | +
*BMR
- | 0 | +
*PHYSIQUE RATING
OBESE
*BIOELECTRICAL DATA
6.25kHz 50kHz
R 433.5 304.3
X -19.3 -29.0

ID

- When it is set with an ID, it is printed out. (The default is without an ID.)

Fat %

- Fat % is amount of body fat as a proportion of body weight.

FFM

- Fat Free Mass is comprised of muscle, bone, tissue, water, and all other fat free mass in the body.

TBW

- Total Body Water is the amount of water retained in the body. TBW is said to comprise between 50% to 70% of total body weight. Generally, men tend to have higher water weight than women due to a greater amount of muscle.

Bone mass*

- Bone mineral amount included in the entire bone.

Metabolic age*

- Metabolic age is evaluated young when a muscular amount is larger, and BMR is higher.

BMI

- Calculated with "weight (kg) / height(m)²"
- The standard value is for the Standard mode. In the case of the Athletic mode, the standard value is just a reference. And for those who are 17 years old or younger, only the body fat % is displayed as the standard value. The muscle mass, total body water and the estimated bone mass for those who are 17 years old or younger are for reference.

*18 to 99 yaers only



Please consult your doctor before you start a body weight management program. Tanita is not responsible for the target body fat ratio.

Specifications

GB

If Necessary

Model Number		DC-430MA
Accuracy Grade		MDD: CLASS IIa NAWI: CLASS III
Power Source		AC adapter: CINCON TR30M120 (centre plus) Input: 100 – 240V ~ 0.6-0.4A 47-63Hz Output: 12V = 2.5A
Electric Current Range		25VA
Impedance Measurement	Measurement System	Dual-frequency 4 electrode
	Measurement Frequency	6.25kHz / 50kHz
	Measurement Current	Up to 90μA
	Electrode Materials	Stainless steel
	Measurement Part	Between both feet
	Measurement Range	150.0 to 1,000.0Ω (0.1Ω increments)
	Accuracy at First Calibration	±2%
Weight Measurement	Measurement System	Strain gauge load cell
	Maximum Capacity	270kg (including preset tare value)
	Minimum Graduation	0.1kg
	Accuracy at First Calibration	±0.2kg
Display		LCD screen
Interface		USB B-type connector (device)
		RS-232C
		SD card
Usage Conditions Range	Temperature	5°C to 35°C
	Relative Humidity	30% to 80% (non-condensing)
	Maximum Altitude	2,000m ASL
	Atmospheric Pressure	86kPa to 106kPa
Storage Conditions Range	Temperature	-10°C to 60°C
	Relative Humidity	10% to 90% (non-condensing)
	Atmospheric Pressure	70kPa to 106kPa
Product Weight	Remote Display Version	7kg
	Column Mounted Version	13.5kg
Product Size	Platform	360mm x 360mm x 94mm
	Height (Column Mounted Version)	1070mm

Input Items	Clothes Weight	0.0kg to 10.0kg (0.1kg increments)
	ID No.	16 digits
	Gender	Female / Male
	Body Type	Standard / Athletic * ¹
	Age	5 to 99 years
	Height	90.0cm to 249.9cm (0.1cm increments)
	Target Body Fat %	4% to 55% (1% increments)
Output Items	ID No.	16 digits
	Gender	Female / Male
	Body Type	Standard / Athletic * ¹
	Age	5 to 99 years
	Height	90.0cm to 249.9cm (0.1cm increments)
	Clothes Weight	0.0kg to 10.0kg (0.1kg increments)
	Weight	2.0kg to 270.0kg (0.1kg increments)
	Fat %	3.0 to 75.0% (0.1% increments)
	Fat Mass	0.1kg increments
	FFM	0.1kg increments
	Muscle Mass	0.1kg increments
	BMI	0.1 increments
	Bone Mass * ²	0.1kg increments
	Metabolic Age * ²	1y increments
	Basal Metabolic Rate * ²	1kcal / 1kJ increments
	Visceral Fat Rating * ²	1 to 59 (1 increments)
	TBW	0.1kg increments
	TBW %	0.1% increments
	Physique Rating * ²	1 to 9
	Bioelectrical Data	Resistance / Reactance

*¹ Athletic mode can be selected only 18-99 years old

*² 18-99 years

1.2

GMON PRO MA

Health Monitor Software

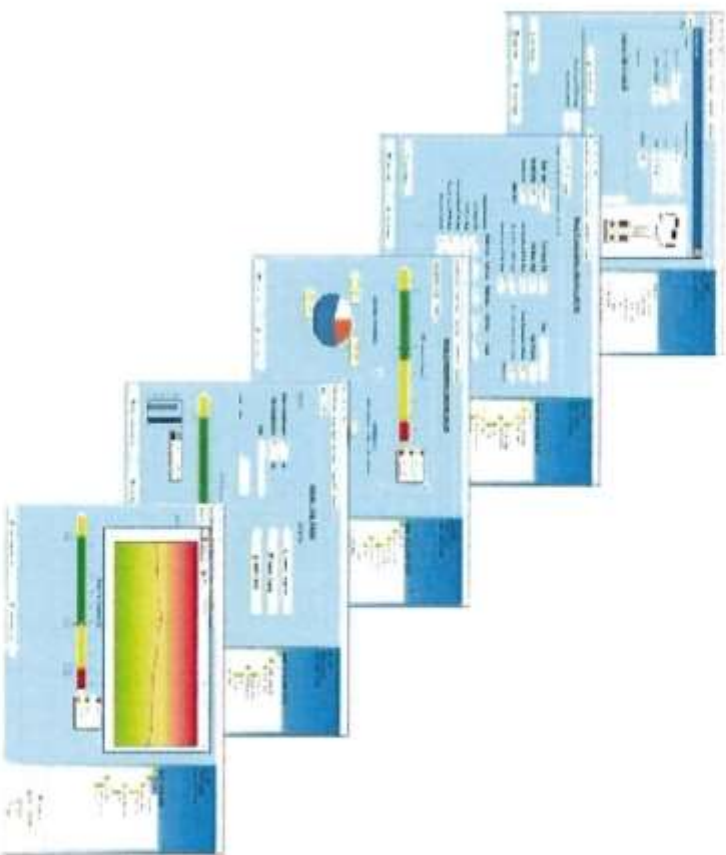
All professional body composition analysers connect

The GMON PRO software package has been developed in partnership with a leading software developer, Medizin & Service GmbH. The software captures data from Tanita Body Composition Analysers and accelerometers, transfers it to a computer, and provides a client database with professional reports, graphs and trend analysis that can be used for client education, research and clinical records.

In line with EU regulations, the software is Medically Approved, which complies with MDD (Medical Device Directive) regulations, (Council Directive 93/42/EEC of 14 June 1993 concerning medical devices.)

In addition to body composition data captured from the Tanita Analyser, the user can input of target values and waist circumference measurements allowing a full overview of a clients health and fitness progress.

A full colour, printable, client consultation sheet showing segmental body composition analysis and ranges is available for MC980MA, MC780MA, DC360, DC430MA and SC240MA.

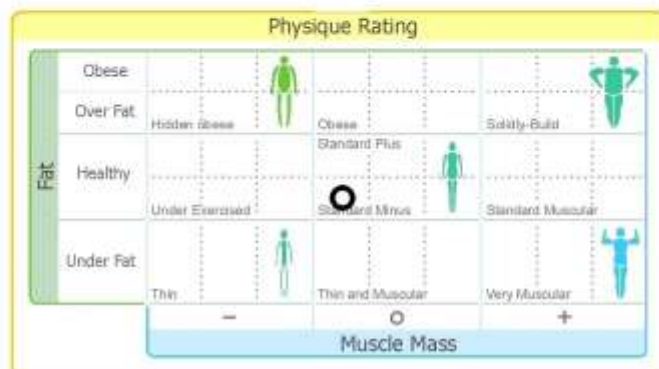


Date 2018.08.21 10:20

ID nindaug
Name Mindaugas Height 181
Age 36 male Type Normal PT 0,5

Details

DC-430	Result	Desirable	Target	Diff
Weight	65,6 kg	68,8-85,2 kg	kg	kg
Fat	8,8 %	8,0-20,0 %	%	%
Fat Mass	5,8 kg	5,2-14,9 kg	kg	kg
FFM	59,8 kg			
Muscle Mass	56,8 kg	55,5-70,3	60,0	-3,2
BMI	20,0	21,0-26,0	22,3	-2,3
SMM	33,8 kg			
Bone Mass	3,0 kg			
Metabolic Age	21			



BMR / TBW / Protein / Visceral Fat Rating

BMR 7147 kJ 1707 kcal
Under Normal More

TBW 40,7 kg 62,0 %
Male 50-65% Female 45-60% Children 60-75%

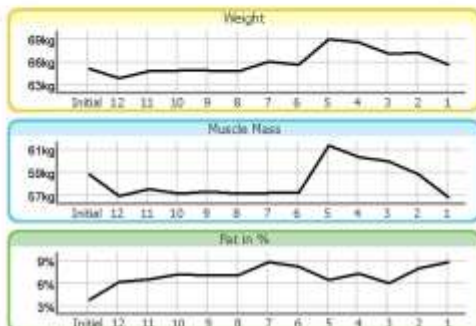
Visceral Fat Rating 2
Average High Very High

Visceral Fat Rating 10: Fat area approximately 100cm²

	Standard	High	Very High
Rating	Below 12	13 ~ 17	Above 18
Judgement	Continue monitoring your rating within healthy range through appropriate exercise and balanced diet.	Consider changing diet and/or increasing exercise to reduce the fat to standard level.	Should engage in more intensive exercise and make changes to current diet. Consult your physician for medical diagnosis.

History

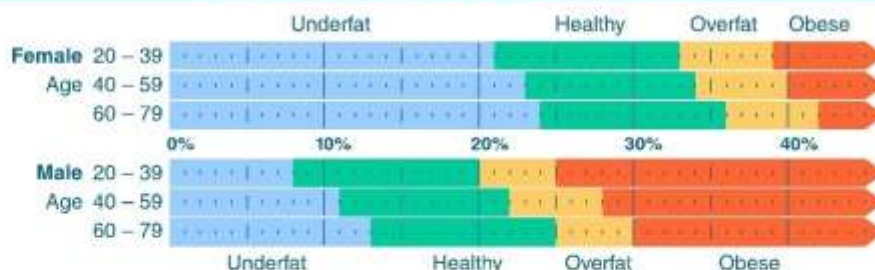
	Weight	Muscle Mass	Fat in %
Current	65,6	56,8	8,8
2018.11.16	67,2	58,8	7,9
2018.06.20	67,0	59,9	6,0
2016.05.04	68,5	60,3	7,3
2016.04.25	68,9	61,3	6,4
2016.02.28	65,6	57,2	8,2
2016.02.28	66,0	57,2	8,8
2015.11.15	64,7	57,1	7,1
2015.10.02	64,8	57,3	7,0
2015.10.02	64,8	57,1	7,2
2015.02.21	64,7	57,5	6,5
2015.02.20	63,8	56,9	6,2
Initial	65,1	58,8	3,8



BIA Information

6.25kHz 50kHz
Resistance 570,2 494,4
Reactance 29,4 52,7
Phase angle 3,0° 6,1°

Body Fat Ranges for Standard Adults



¹ Based on NIH/WHO BMI Guidelines. ² Gallagher, et al. Am J Clin Nutr 2000; 72:694-701.
To determine the percentage of body fat that is appropriate for your body, consult your physician.

Recommendations

Remarks

Please note that people with an electronic medical implant, such as a pacemaker, should not use a Body Composition Monitor as it passes a low-level electrical signal throughout the body, which may interfere with its operation.
Readings are for reference only for dialysis patients and menstruating female.