

Instruction Manual



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NOTE: Design details may change without notice

1. INTRODUCTION

The *APT* is an electric exercise machine used for the improvement of physical abilities. The *APT* provides the user with a variety of exercise options and modes of operation that meet a broad range of physical needs.

A wide range of accessories are available that offer many exercise options and make the **APT** suitable for the maintenance of fitness and physical well being.

The *APT* can be operated in either the ACTIVE mode at varying degrees of resistance or in the PASSIVE mode at adjustable speed and torque levels. In the PASSIVE mode it is also possible to combine PASSIVE with ACTIVE training by using physical effort in conjunction with the electrical operation of the motor. The *APT* functions forwards or backwards and is suitable for arm or leg exercises (upper or lower limbs).

The *APT*'s light weight makes it portable, easy to store and convenient to use in the comfort of one's home. The unit is also suitable for use in health care institutions.

Use of the **APT** is recommended for the maintenance of muscle strength, flexibility, muscle tone, endurance and general fitness for users of all ages.

2. SYSTEM COMPONENTS AND DETAILS

2.1. APT unit (Figure 1)

APT Hi-Lo (Figure 1A)

- 1. Operator panel
- 2. Angle release knob
- 3. Angle securing knob
- 4. Crank-arm
- 5. Power input socket
- 6. Height release knob (*Hi-Lo* only)
- 7. Height securing knob (*Hi-Lo* only)





2.2. Primary components (Figure 2):

- 1. Power supply unit
- 2. Straight hand-grips (Optional)
- 3. Footrests (Optional)
- 4. Finger protection disks
- 5. Securing straps (Optional)



2.3. The Type Plate



When this equipment is no longer operational it must be sent to a separate collection facility for recovery and recycling.

CE approved Notified Body No. 0123.

Type B equipment.

Read this user manual and all labels before operating.





Figure 3

1	Mode	Operation mode Button - for selecting mode of operation.
2	Active	Green indicator is lit when ACTIVE mode is selected by mode button.
3	Passive	Green indicator is lit when PASSIVE mode is selected by mode button.
4	1 2 3 4 5 1 2 3 4 5	Exercise level selection push switches 1 - Lowest level 5 - Highest level
5	10% 25% 50% 75% 100%	Indicates actual load level (%)
6		Button for forward operation in the PASSIVE mode. The green indicator is lit to indicate forward operation.
7		Button for backward operation in the PASSIVE mode. The green indicator is lit to indicate backward operation.
8		Button activating Auto-Reverse function in the PASSIVE mode. In the ACTIVE mode this button activates the constant force function. The green indicator is lit when activated.

3. PREPARING THE APT HI-LO



3.1. Moving your APT Hi-Lo

The *APT Hi-Lo* can easily be moved by lifting the end of the frame and pushing the unit using its wheels, see Figure 4.

3.2. Positioning the APT Hi-Lo

Position the *APT Hi-Lo* close to an electrical socket outlet. The adjustable feet on the underside keep the *APT Hi-Lo* level and prevent it from sliding.

NOTE: Ensure that the APT Hi-Lo is level in order to prevent damage to the trainer or its components.

If readjustment of one of the feet is needed, open the contra nut (4A/1), turn the foot (4A/2) to the desired height and secure the foot with the contra nut (4A/1).

4. INSTALLATION FOR USE - ARMS EXERCISE



Step 1: Position the APT on a level table top close to an electrical socket outlet (Figure 5).

For the **APT Hi-Lo**: loosen the height securing knob (Figure 1A-7, pull the grey ring of the height release knob (Figure 1A-6) and adjust the unit to the required height. Release the grey ring and tighten the height securing knob (Figure 1A-7).

Step 2: Loosen the angle-securing knob (Figure 5-1) and adjust the APT to the required angle. To increase the angle, lift the body of the APT, allow it to "click" into one of the operating positions and retighten the securing knob. To decrease the angle, pull the angle release knob (Figure 6), lower the body of the APT, allow it to "click" into another operating position and tighten the securing knob.

CAUTION: Make sure that the minimum distance between crank arm and the table surface is approximately 5 cm. / 2" (Figure 5-2).

Step 3: Connect the output connector (Figure 7-1) of the power supply (Figure 7-4) to the APT power input socket (Figure 7-2) while ensuring correct position of connector groove opposite the guide key of socket (Figure 7-3).

NOTE: The APT must be used only with an original APT Power Supply unit.

Step 4: Install the finger protection discs (Fig. 8-1) by sliding them into the grooves on the outside edges of the crank arms (Figure 8-2) in the direction shown.

NOTE: The finger protection discs are important for safe operation of the unit during hands exercise.

Step 5: Insert handgrip (Figure 9-1) in one of the four mounting holes (Figure 9-2) in each of the APT crank arms. Installation or removal requires only a straight push or pull while simultaneously pressing on the release pin (Figure 9-3) at the end of the handle.

NOTE: The choice of mounting hole provides variable resistance levels and ranges of motion. See operation instructions.



Figure 8 finger protection discs and crank

Step 6: Plug the power supply mains power plug into the electrical socket outlet (Figure 5-3). The APT will enter a

handgrip and crank

stand by position. **To start operating,** press the ^{Mode} button. The green ACTIVE mode indicator will light up. You may start exercising in the ACTIVE mode. For operation instructions, see 5.1 & 5.2.

NOTE: If the *APT* moves across the table during arm exercises, anti-slip pads (Figure 8-3) may require cleaning.

5. INSTALLATION FOR USE - LEG EXERCISE



Step 1: Position the APT on the floor close to an electrical socket outlet (Figure 10).

For the *APT Hi-Lo*: loosen the height securing knob (Figure 1A-7, pull the grey ring of the height release knob (Figure 1A-6) and adjust the unit to the required height.

Step 2: Loosen the angle-securing knob (Figure 10-1) and adjust the APT to the required angle. To increase the angle, lift the body of the APT, allow it to "click" into one of the operating positions and retighten the securing knob. To decrease the angle, pull the angle release knob (Figure 11), lower the body of the APT, allow it to "click" into another operating position and tighten the securing knob.

CAUTION: Make sure that the minimum distance between crank arm and the floor surface is approximately 5 cm. / 2" (Figure 10-2)

Step 3: Place a chair at the desired distance from the APT. If necessary, attach the Securing straps (Figure 10-6) between the APT base rings (Figure 10-5) and the chair legs to prevent any change in distance between the APT and the chair during leg exercises. Step 4: Connect the power output connector (Figure 12-1) of the power supply (Figure 12-4) to the APT power input socket (Figure 12-2) while ensuring correct position of connector groove opposite the guide key of socket (Figure 12-3).

NOTE: The APT must be used only with an original APT Power Supply unit.

Step 5: Insert Footrest (Figure 13-1) in one of the four mounting holes (Figure 13-2) in each of the APT crank arms. Installation or removal requires only a straight push or pull while simultaneously pressing on the release pin (Figure 13-3) as shown. Secure feet in place with straps fastened diagonally as shown in Figure 10.

NOTE: The choice of mounting hole provides variable resistance levels and ranges of motion. See operation instructions.



Figure 13

Step 6: Plug the power supply mains power plug into the electrical socket outlet (Figure 10-3). The APT will enter a

stand by position. **To start operating,** press the ^{Mode} button. The green ACTIVE mode indicator will light up. You may start exercising in the ACTIVE mode. For operation instructions, see 5.1 & 5.2.

NOTE: If the *APT* moves across the floor during leg exercises, make sure anti-slip pads (Figure 10-4) are clean. If possible – use the *APT* on a carpet or rubber mat.

6. OPERATION INSTRUCTIONS

NOTE: Install *APT* for arms or legs exercise as described in the previous chapters.

6.1. Active mode - ISOKINETIC operation

Step 1: Insert the handgrips or footrests in one of the four mounting holes according to the radius and range of motion required.

NOTE: As the effective crank arm length is reduced in the ACTIVE mode, the amount of effort required increases while the range of motion decreases, and vice versa.

Step 2: To activate the active mode from the stand by position (after the electrical power is supplied to the APT):

press the button. The green ACTIVE mode indicator (Figure 3-2) will light up.

Step 3: Set the desired load level by pressing one of the five load selection push switches (Figure 3-4).

Step 4: Rotate the *APT* handgrips or footrests forward or backward. Actual exercising force is displayed as a percentage (%) on the Bar Indicator (Figure 3-5).

NOTE: In this mode, an increase in the rotation speed (RPM) will lead to an increase in the exercising force (**Table 1, Appendix 1**).

6.2. Active mode - CONSTANT FORCE Operation



- Step 1: Press the vertice button to activate the CONSTANT FORCE FUNCTION in the ACTIVE mode. The green indicator will light up.
- Step 2: Set the desired load level by pressing one of the five load selection push switches (Figure 3-4).
- Step 3: Rotate the APT handgrips or footrests forward or backwards. The exercising force as displayed on the Bar Indicator (Figure 3-5) will now remain constant at 50% for the selected load level, irrespective of the crank arm rotation speed (Table 2, Appendix 1).

6.3. PASSIVE mode

Step 1: Insert the handgrips or footrests in one of the four mounting holes according to the radius and range of motion required.

NOTE: As the effective crank arm length is reduced in the PASSIVE mode, the range of movement is reduced and the degree of resistance that the motor can overcome is increased.

Step 2: To activate the passive mode from the stand by position (after the electrical power is supplied to the

APT): Press the button two times, until the green PASSIVE mode indicator (Figure 3-3) will light up. From the ACTIVE mode – press once only.

- Step 3: Set the desired rotation force and speed by pressing one of the five exercise level selection push switches (Figure 3-4). 1 = lowest force, 20 rpm / 5 = highest force, 60 rpm
- **Step 4:** Hold onto the handgrips (for arm exercise) or secure both feet to the footrests (for legs exercise). Make sure that *APT* is placed at a comfortable distance for exercise by turning the crank arms one complete revolution.

Press the **T** button for forward rotation.

Press the • • • button for backward rotation.

- NOTE: There will be a short delay before the APT begins to turn in the chosen direction.
- Step 5: The operation force of the crank arms should rotate the arms or legs of with no effort on the part of the user. This rotation force varies according to exercise level and crank arm mounting hole location selected (Table 3, Appendix 1).
- Step 6: To stop the rotation of the crank-arms and exit the PASSIVE mode, press the button. The indicators will turn off and the *APT* will return to the stand-by position.

6.4. COMBINED active/passive mode

- Step 1: Operate the *APT* in the passive mode and work against the force of the motor by applying resistance to the rotation of the crank arms.
- Step 2: The resistance force to the rotation is displayed on the on the Bar Indicator as a percentage (%) at each level.
- **Step 3:** If the resistance force stops the crank arm rotation completely, the Bar Indicator (Figure 3-5) reaches 100% and the red indicator will light up. After holding this position for approximately 2 seconds, the crank arm rotation will stop automatically.
- **NOTE:** To restart, Press the **U** button for forward rotation, or the **v** button for backward rotation.

6.5. Passive mode - AUTO-REVERSE function

- **Step 1:** Push the U button to activate the AUTO-REVERSE function in the PASSIVE mode. The green indicator will light up.
- Step 2: Operate the APT as in usual passive or combined active/passive mode.
- Step 3: When the resistance force stops the crank arm rotation completely, the Bar Indicator (Figure 3-5) reaches 100% and the red indicator will light up. After holding this position for approximately 2 seconds, the crank arm rotation will stop automatically. After a short delay the DIRECTION OF ROTATION WILL BE REVERSED. This feature also serves as an ANTI-SPASM function, stopping the motor in case of muscle spasm and reversing the direction of rotation after a short delay.
- **Step 4:** As long as the U button indicator is lit, this function will continue to operate in the PASSIVE mode.

6.6. Shut down



Step 1: To turn off the *APT*, from the PASSIVE mode- press the button once. From the Active mode – press twice. The indicators will turn off and the *APT* will return to its stand-by position.

Step 2: Disconnect the power from the *APT* by first disconnecting the mains electrical plug from the electrical socket outlet. Disconnect Power supply output connector from the *APT* power input socket.

CAUTION: For safe disconnection *always* take the mains plug out of the electrical socket before disconnecting the Power supply from the *APT*.

6.7. Emergency Switch

In the event of the need to stop the *APT* quickly, press the red mushroom headed button (Figure 14-1) situated on the top of the trainer body (above the control panel). This will immediately cut the electrical supply to the *APT*.

The button will stay depressed and as long as it is in this position the *APT* will not function.

In order to restore the electrical supply to the *APT*, turn the knurled black disc underneath the red button (Figure 14-2) in the direction of the white arrow (Figure 14-3) on the red button (clockwise). The red button will then return to its original position.

The **APT** may then be restarted as previously described.



Figure 14 – Emergency Switch

7. GENERAL MAINTENANCE & STORAGE

The rugged design of the **Active Passive Trainer** and the use of selected, modern materials ensure minimal requirements for care and maintenance. The **APT** can be lifted safely in its folded position by grasping on to the centre of either of the legs of the base and carrying like a suitcase.

NOTE: Improper handling or neglect in the care of the **Active Passive Trainer** may reduce or cancel the coverage of the manufacturer's warranty.

7.1. Regular care

- Inspect Power supply cables and plug for visible damages.
- Check power-input connector for visible damage or insecure fastening.
- On a regular basis check that all screws and components are fastened tightly.
- Ensure that the anti-slip pads under the base are always kept clean.

CAUTION: If any damage is detected – do not use *APT*. Please contact your authorized dealer. Only authorized personnel may carry out repairs.

7.2. Cleaning instructions

• Disconnect Power Supply and wipe dry with clean cloth.

CAUTION: For safe disconnection of the *APT always* take the mains plug out of the wall socket *before* removing the connector from the *APT* power socket.

• Take care not to allow water to enter the unit. Keep cables and electric components away from water and humidity.

7.3. Storage

- Store the APT between -20 and +40 degrees C and between 10% and 80% humidity.
- For storage in a confined space, fold the *APT* unit by pulling the angle release knob (Figure 1-2) and lowering it to the flat position. Tighten the angle-securing knob (Figure 1-3) to prevent unintentional unfolding.

8. TROUBLE-SHOOTING

Hereunder are some types of disorders, which can usually be repaired rather simply. If these following measures are unsuccessful, an authorized dealer should be contacted!

PROBLEM	CHECK POINT			
	Power Supply not connected properly to mains outlet or to the <i>APT</i> .			
The APT does not function at all	APT in standby mode. Press the button to enter ac- tive or passive modes.			
	(Models with Stop-switch) Stop switch in lower - disconnec- tion position. Turn switch anti-clockwise to release.			
The crank-arms do not start to rotate in the passive	No load/speed selection button is selected (pushed in- wards)			
mode	(Models with Independent Speed controller) Speed control Knob is in the "0" (off) position. Turn knob clockwise to de- sired exercise speed.			
Models with remote control: remote unit not functioning	Remote unit's transmitter LED needs to be wiped clean			
smoothly	Remote unit batteries need replacement			

9. ACCESSORIES

The following items are designed for use in combination with the *APT*. CAUTION: The use of accessories other than these can be unsafe.

9.1. Optional hand grips and Footrests

#	ACCESSORY	USAGE DESCRIPTION	FIGURE
a)	Straight Handgrips	Used for most of the upper limb exercis- ing.	
b)	Angled Handgrips	Ergonomically designed, mainly for strength exercising in the Active mode.	
c)	Hemi-glove	Used for securely supporting the wrist and hand on the handgrips for users who have little or no muscle strength.	
d)	Pediatric Hemi-glove	Hemi-glove specially designed to be used by children.	A B
e)	Standard Footrests	Used for most of the lower limb exercis- ing.	
f)	High support for footrests	May be attached to footrests for support- ing the lower limbs of users that have little or no muscle strength.	

9.2. Optional added functions

#	ACCESSORY	USAGE DESCRIPTION	FIGURE
a)	Remote Con- trol	Used mainly for lower limb exer- cising by users who have diffi- culty in reaching the operating panel.	

10. DISPOSAL AND RECYCLING

The packing material must be separated to plastic and paper/cardboard components and submitted to authorized recycling locations.

The *APT* device consists of electronic components, cables, plastic parts, steel body and base frame, and aluminium parts. Do not discard any components to normal refuse facilities. When *APT* is no longer operational, it is to be dismantled and separated into above material groups and submitted to authorized recycling facilities.



11. TECHNICAL DATA

APT Unit Model 8300

Weight	22 lbs.
Length	28 in. Overall
Width	18 in.
Height	6.5 in. Folded
Working voltage	24 VDC
Revolutions per minute	20 - 60 RPM
Rotation Radius	1.5, 3.0, 4.5, 6.0 in.
Exercising Positions	15°, 30°, 45°, 60°
Current Rating	4.16 A Max.
Accuracy of measurement display	±10%
́х т	Type B equipment
	Equipment not suitable for use in the presence of flammable anaesthetic mixture with air or with oxygen or nitrous oxide. Continuous operation
External Power Supply	
External Power Supply Weight	1.8 lbs.
External Power Supply Weight Length	1.8 lbs. 7.5 in.
External Power Supply Weight Length Width	1.8 lbs. 7.5 in. 3.5 in.
External Power Supply Weight Length Width Height	1.8 lbs. 7.5 in. 3.5 in. 1.8 in.
External Power Supply Weight Length Width Height Input:	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A
External Power Supply Weight Length Width Height Input: Output:	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A
External Power Supply Weight Length Width Height Input: Output:	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A Class I equipment
External Power Supply Weight Length Width Height Input: Output: Output: APT Hi Lo	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A Class I equipment
External Power Supply Weight Length Width Height Input: Output: Output: APT Hi LO Model 8500	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A Class I equipment
External Power Supply Weight Length Width Height Input: Output: Output: APT Hi LO Model 8500 Weight	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A Class I equipment 86 lbs.
External Power Supply Weight Length Width Height Input: Output: Output: APT Hi LO Model 8500 Weight Base Dimensions	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A Class I equipment 86 lbs. 40 x 30 in.
External Power Supply Weight Length Width Height Input: Output: APT Hi LO Model 8500 Weight Base Dimensions Height	1.8 lbs. 7.5 in. 3.5 in. 1.8 in. 100~240 V 47-63 Hz 1.25 A 24 VDC 100 W Max. 4.16 A Class I equipment 86 lbs. 40 x 30 in. 40 in.

		2!	5%	5	0%	7	5%	10	0%	
	Level		OZ.	Kg.	oz.	Kg.	oz.	Kg.	OZ.	Kg.
	Force	R1	3.5	0.1	4	0.15	10	0.3	20	0.55
		R2	5.0	0.15	6	0.2	13	0.35	25	0.75
1		R3	7.5	0.2	9	0.3	20	0.6	40	1.2
		R4	15	0.4	18	0.5	40	1.2	80	2.3
	Power	Watts	0	.5		1		3		9
	Speed	RPM	3	30	Ę	50		65	1	00
	Force	R1	7.5	0.2	9	0.25	21	0.6	40	1.1
		R2	10	0.3	12	0.35	28	0.8	53	1.5
2		R3	15	0.4	18	0.5	42	1.2	80	2.3
-	_	R4	30	0.85	36	1.0	84	2.4	160	4.6
	Power	Watts		1	2			6	18	
	Speed	RPM	: 	30	50			65	100	
	Force	R1	15	0.4	18	0.5	42	1.2	80	2.3
		R2	20	0.6	24	0.7	56	1.6	110	3.0
3		R3	30	0.85	36	1.0	86	2.4	160	4.6
	Dever	K4	60	1.7	72	2.0	170	4.7	320	9.2
	Speed			2		4		12		00
	Speed		20	0.95	26	1.0	04	24	160	4.6
	Force	КI 02	30 40	0.00	30 49	1.0	04	2.4	220	4.0 6.0
			40 60	1.1	70	2.0	170	J.Z 4 7	220	0.0
4		R4	120	34	140	2.0	340	4.7 9.5	520 640	9.2 18.5
	Power	Watts	120	۰.4 4	140	я	040	24 24	040	72
	Speed	RPM	3	30	50		65		100	
	Force	R1	60	1.7	70	2.0	165	4.7	320	9.1
		R2	80	2.3	95	2.7	220	6.2	430	12
_		R3	120	3.4	145	4.1	330	9.3	650	18
э		R4	240	6.8	290	8.2	660	18.5	130	36
	Power	wer Watts 8 16		16	48		144			
	Speed	RPM	3	30	Ę	50		65	1	00

Table 1: Active Mode ISOKINETIC operation

NOTE: Force Levels are indicated for Mounting Hole locations R1, R2, R3 & R4 on crank-arms (Figure 9 / Figure 13).

			50	50%			
	Leve	el	OZ.	Kg.			
	Force	Level 02. Force R1 4.5 R2 6 R3 9 R4 18 Force R1 9 R2 12 R3 18 R4 36 Force R1 18 R2 24 R3 36 R4 72 Force R1 36 R2 48					
1		R2	6	0.17			
'		R3	9	0.25			
		R4	18	0.50			
	Force	R1	9	0.25			
2		R2	12	0.3			
2		R3	18	0.5			
		R4	36	1.0			
	Force	R1	18	0.5			
2		R2	24	0.7			
5		R3	36	1.0			
		R4	72	2.0			
1	Force	R1	36	1.0			
4		R2	48	1.4			
4		R3	70	2.0			
		R4	140	4.0			
	Force	R1	72	2.0			
5		R2	96	2.7			
5		R3	140	4.0			
		R4	280	8.0			

Table 2: Active Mode CONSTANT FORCE operation

NOTE: Force Levels are indicated for Mounting Hole locations R1, R2, R3 & R4 on crank-arms (Figure 9 / Figure 13).

0% 25% 50% 75% 100% Kg. Kg. Level oz. oz. oz. Kg. oz. Kg. Force R1 0 25 0.7 50 1.4 75 2.1 100 2.8 R2 0 33 0.95 67 1.9 100 2.8 135 3.7 4.3 1 R3 0 50 1.4 100 2.8 150 200 5.6 R4 0 100 2.8 200 5.6 300 8.5 400 11.2 Speed RPM 20 15 10 5 0 0.55 Force R1 0 32 0.90 63 95 2.7 125 3.5 R2 0 43 1.20 84 2.4 125 3.6 170 4.7 2 R3 0 65 1.80 125 3.5 190 5.4 250 7.0 R4 0 130 3.60 250 7.0 380 10.7 500 14 Speed **RPM** 30 23 15 8 0 Force R1 0 38 1.1 75 2.1 110 3.0 150 4.2 R2 0 51 1.4 100 2.8 145 4.1 200 5.0 3 R3 0 75 2.1 150 4.2 215 6.1 300 8.4 R4 0 150 4.3 300 8.4 430 12.2 600 16.9 RPM 40 30 Speed 20 10 0 Force R1 0 44 1.2 88 2.5 130 3.7 175 5.0 59 R2 0 1.7 115 3.3 175 5.0 253 6.6 4 R3 0 88 2.5 175 5.0 350 9.8 265 7.4 R4 0 175 5.0 350 10 530 15 700 19.7 Speed RPM 50 38 25 13 0 Force R1 0 50 1.4 100 2.8 150 4.2 200 5.6 R2 0 67 200 5.6 267 1.9 133 3.7 7.5 5 R3 0 100 2.8 200 5.6 300 8.4 400 11.3 R4 0 200 5.6 400 11.3 600 16.9 800 22.5 Speed RPM 60 45 30 15 0

Table 3: Passive Mode

NOTE: Force Levels are indicated for Mounting Hole locations R1, R2, R3 & R4 on crank-arms (Figure 9 / Figure 13).

For safety and for warranty assurance reasons, any modifications and repair of the *APT* or its components must be performed exclusively by authorized personnel and exclusively with original spare parts.

The *APT* Active Passive Trainer and its accessories have been designed and manufactured in accordance with the specification of the following:

DIRECTIVE: Medical devices 93/42 EEC (Annex V)