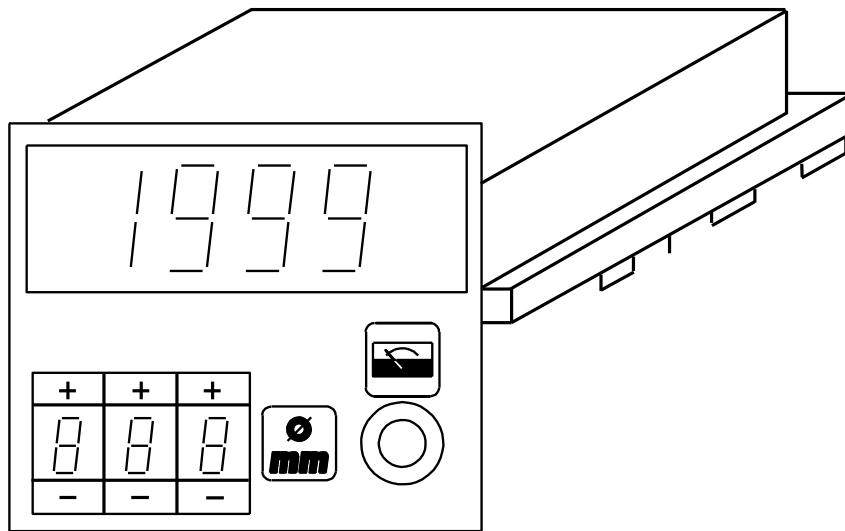


MOVEMENT DISPLAY UNIT

SAFETY INSTRUCTIONS FOR USE AND MAINTENANCE

DEVICE No W000315436



EDITION: EN
REVISION: G
DATE: 07-2021

Instructions for use

REF: **8695 6858**

Original instructions

Thank for the trust you have expressed by purchasing this equipment, which will give you full satisfaction if you follow its instructions for use and maintenance.

Its design, component specifications and workmanship comply with applicable European directives.

Please refer to the enclosed CE declaration to identify the directives applicable to it.

The manufacturer will not be held responsible where items not recommended by themselves are associated with this product.

For your safety, there follows a non-restrictive list of recommendations or requirements, many of which appear in the employment code.

Finally we would ask you kindly to inform your supplier of any error which you may find in this instruction manual.

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INFORMATIONS

DISPLAYS AND PRESSURE GAUGES

The measuring devices or displays for voltage, current, speed, pressure, etc., whether analog or digital, should be considered as indicators

Folglich, kein Eichung-Zertifikat wurde ausgegeben.

REVISIONS

REVISION B 12/99

DESIGNATION	PAGE
Delecte PJR 101	

REVISION C 05/06

DESIGNATION	PAGE
To change logos	

REVISION D 11/08

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REVISION F 07/12

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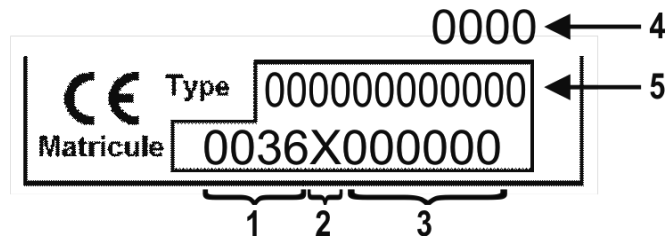
REVISION G 07/21

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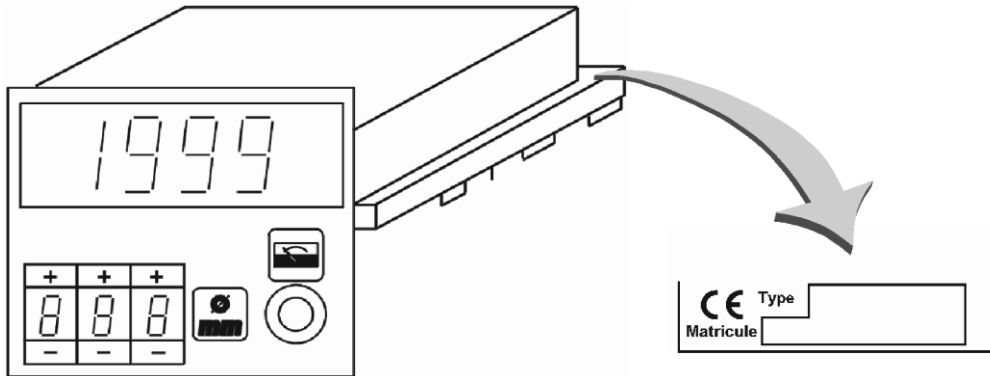
A - IDENTIFICATION

Please enter the number of your equipment in the following box.

Quote this information in all correspondence.



1	Manufacturing factory code	4	Year manufactured
2	Manufacturing year code	5	Product type
3	Product serial no.		



B - SAFETY INSTRUCTIONS

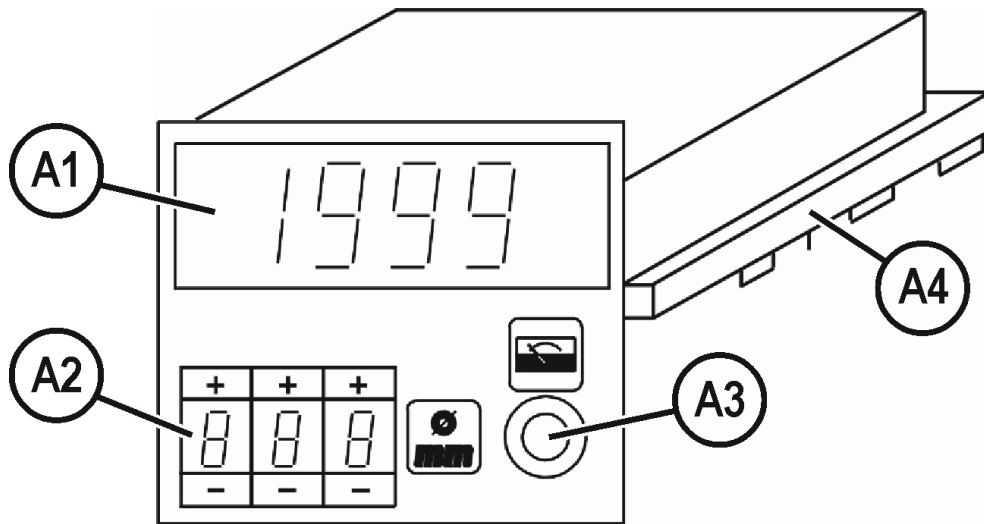
For general safety instructions, please refer to the specific manual supplied with the equipment.

C - DESCRIPTION

This option allows visualization of the movement speed of the machine on a 3½ digit digital display unit.

A push-button allows visualization of this speed with no movement in order to preset the movement speed.

When operating in rotation, a 3 digit selecting switch allows the display of the circumferential speed of a part by selecting its diameter from 1 to 999 mm.



A1	3½ digit digital display unit.
A2	Encoding wheel selecting diameter in rotation (1 to 999 mm).
A3	Initial display push-button. It makes it possible to know the displacement speed when there is no movement.
A4	Measuring signal matching printed circuit.

SPECIFICATIONS

Power supply :	24v 50/60 Hz 0.3A
Dimensions :	85 x 75 x 100 mm
Operating temperature :	0 to 40° C
Weight	1Kg

D - ASSEMBLY - INSTALLATION

1 - ASSEMBLY

Remove the cover on the front part of the box being used by unscrewing the four nuts that fix it by the rear.

Remove the attachment clamp of the display unit and then remove the display unit from the front panel of the display option.

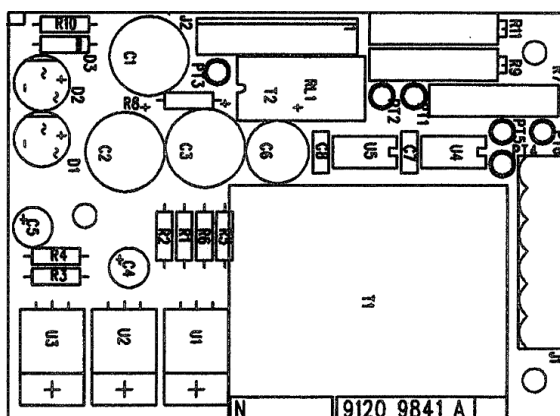
Position the display unit on the front part. Reassemble the display unit and its attachment clamp. Tighten moderately the three locking screws of the display option.

2 - WIRING

For wiring, refer to Safety Instruction for Use and Maintenance of the device to which the display option will be assembled.

J1-1	power supply 24V - 50 Hz
J1-2	
J1-3	variable speed unit setpoint input
J1-4	
J1-5	tacho generator input
J1-6	

3 - ADJUSTEMENT



The measuring signal matching board is factory adjusted. A verification can be made according to the following procedure.

A voltmeter capable of measuring 20 volts d.c. is required.

INITIAL DISPLAY

The measurement points are on the measuring signal matching printed circuit.

Connect the 0V of the voltmeter on PT1 and the voltmeter + on PT4.

The device being switched on, keep the A3 push-button pressed in. Turn the speed potentiometer on the front panel to read 2 volts on the voltmeter.

The diameter encoding wheels being on 999, move the wire from PT4 to PT5. If the reading differs from 2V, it has to be adjusted using the trimmer R9 to be identical.

Move the wire from PT5 to PT6. Adjust R11 if necessary to obtain the same 2 volt reading as for PT4 and PT5.

Release the initial display push-button A3.

MOVEMENT SPEED

The motor should run at 1000 rpm with the 2 volt setpoint. The A77 motor being equipped with a tacho generator, the voltage measured between J1-5 and J1-6 must be 7.32 volts.

If this value is not correct, the variable speed unit must be adjusted.

Connect the voltmeter between PT1 and PT4 and adjust R7 to read 2 volts. The measuring signal matching board is then adjusted.

The display option is delivered configured in factory to display 1000 cm/mn with the motor running at 5000 rpm.

If the maximum displacement speed does not correspond to that value, the parameters of the display unit have to be modified by changing R10 according to the following formula :

$$R101 = \frac{10^5 + N}{(10 \times U) - N}$$

U : Value of the voltage to be measured in mV (in this case 10 V → 10000)

N : number of points to be displayed without taking the comma into account

(i.e. : 300 cm/mn → 300)

Once the resistance is modified, run the motor with the 5 volt setpoint. Adjust RA1 to read on the display unit half of the maximum required speed.

Examples :

1000cm/mn → R101 = 10KΩ

300 cm/mn → R101 = 3KΩ

HEADSTOCK PJR


At maximum speed with a part of diameter 1m, the display unit is saturated. The correct value is displayed up to a circumferential speed of 1999cm/mn.

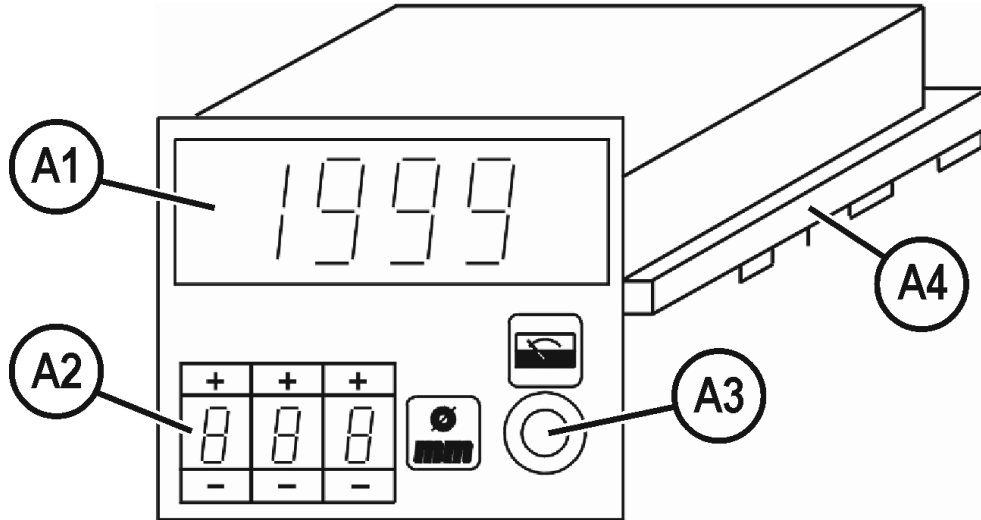
For the adjustment with a 2v speed setpoint we obtain :

30 rpm → R101 = 100K Ω - display 1885cm/mn

10 rpm → R101 = 33K Ω - display 628cm/mn.

E - SPARE PARTS

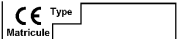
 In order to avoid errors when supplying spare parts, we recommend that you send us a copy of the page with the list of parts duly completed. Please specify in the Order column the number of parts desired and indicate the type and the serial number of your equipment.



✓	normally in stock
✗	not in stock
	on request

Item	Ref.	Stock	Order	Designation
A1 A2 A3 A4	W000315436	✓		Display unit

➤ For parts order, give the quantity required and put the number of your machine in the box below.

	TYPE:
	Number:

