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1. Informations

1.1 Release

This document is valid except for errors or omissions.

			
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01	New manual		20/04/2017

1.1.1 Specifications/Copyright

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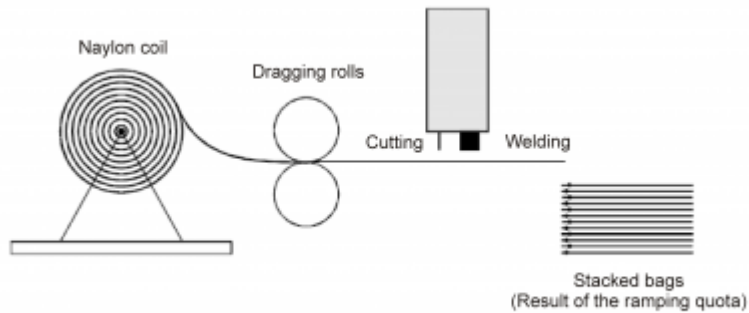
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2. Description

The **P1P20F - 005 application**, installed in the *Qmove J1-P20-FZ20 hardware*, manage a standard automatic cutter with 1 move forward axis and 1 optional axis for the cams management. The parameters that determine the mode of operation are only accessible to the installer by the introduction of a password.



3. Hardware and connections

3.1 Base card

3.1.1 Power supply

The instrument must be powered to 24Vdc. No internal fuse will be provided.

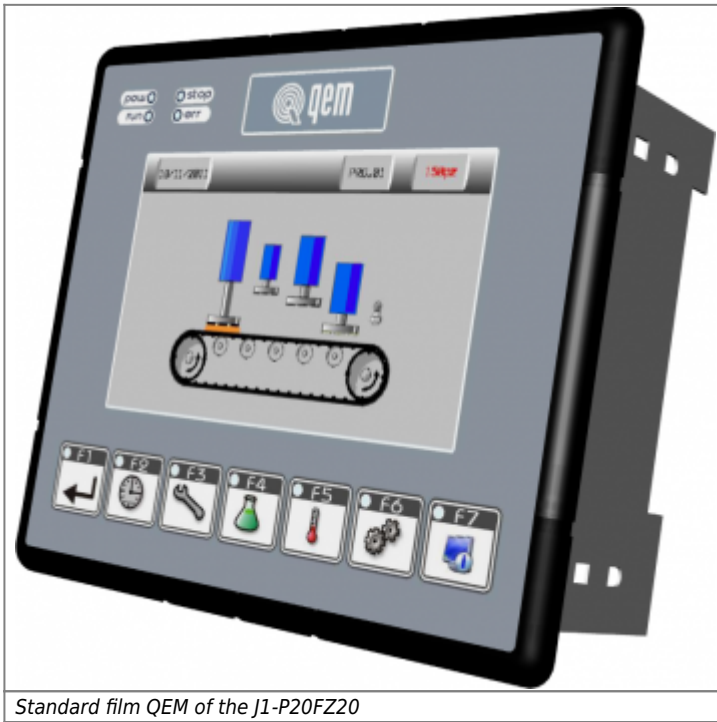
3.1.2 Connectivity

Will be provided in "standard Version", nr. 2 serials:

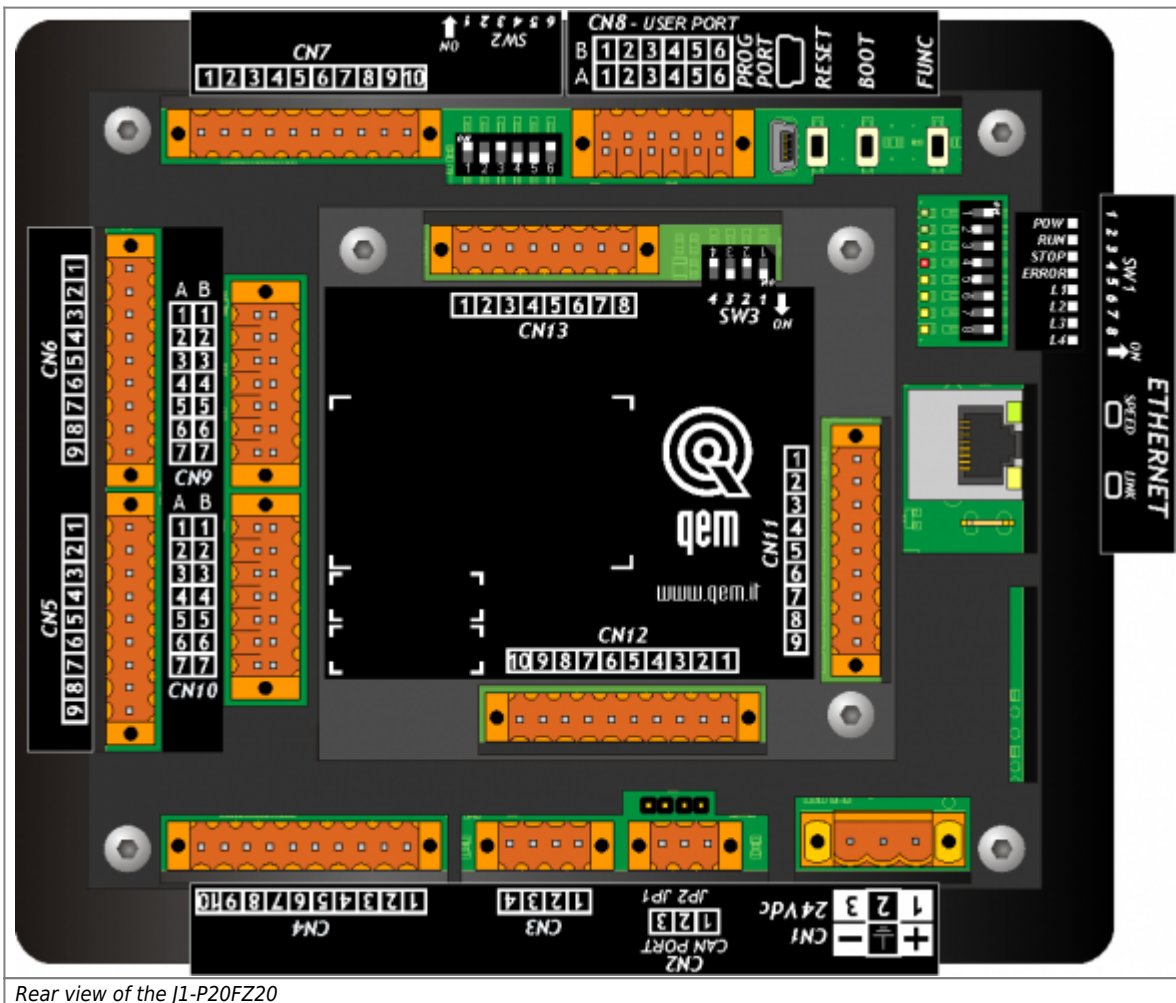
- PROG PORT → Serial with TTL logic standard for programming.
- ETHERNET PORT

Nr. 1 MMC port to save/load data from external memory.

3.1.3 J1-P20-FZ20



Standard film QEM of the J1-P20FZ20



Rear view of the J1-P20FZ20

3.1.4 I/O list

In this section we list all the I/O used and divided by connector.

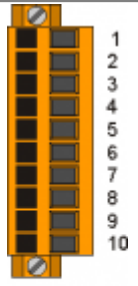
3.1.4.1 Digital inputs (n. 24)

- NO = Normally open
- NC = Normally closed
- I = Impulsive
- C = Continuous

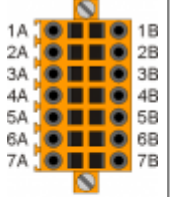
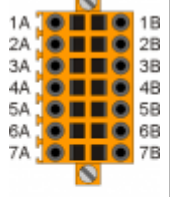
NAME	DESCRIPTION	OPERATION			CONNECTOR	CLAMP	HARDWARE
I1	Emergency Push Button	NC	C	OFF = Alarm		CN6.2	J1-P20-FZ20
I2	Manual / Automatic	NO	C	OFF = Manual ON = Automatic		CN6.3	
I3	Start / Stop	NO	C	OFF = Stop ON = Start		CN6.4	
I4	Stop	NO	I	ON = Stop movement		CN6.5	
I5	Free	-	-	-		CN6.6	
I6	Restart	NO	I	ON = Restart active		CN6.7	
I7	End coil	NO	C	OFF = Film not present		CN6.8	
I8	Fault drive WEB	NC	C	ON = Drive OK		CN6.9	
NAME	DESCRIPTION	OPERATION			CONNECTOR	CLAMP	HARDWARE
I9	Fault drive Camme	NC	C	ON = Drive OK		CN5.2	J1-P20-FZ20
I10	Thermal WEB	NC	C	OFF = Alarm		CN5.3	
I11	Thermal Cams	NC	C	OFF = Alarm		CN5.4	
I12	Motor Cams Brake	NO	C	ON = Alarm		CN5.5	
I13	Anti-static bars	NO	C	ON = Alarm		CN5.6	
I14	Anti-jam	NO	C	ON = Allarme		CN5.7	
I15	Piece counter block	NO	C	ON = blocked		CN5.8	
I16	Free	-	-	-		CN5.9	

All the inputs of the **CN11** are used as **RESERVES**.

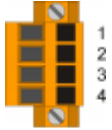
3.1.4.2 Digital outputs (n. 24)

NAME	DESCRIPTION	OPERATION		CONNECTOR	CLAMP	HARDWARE
O1	Tolerance positioning	C	ON = EV active		CN7.2	J1-P20-FZ20
O2	End Step	C	ON = EV active		CN7.3	
O3	End Program	C	ON = EV active		CN7.4	
O4	Stop not occurring	C	ON = EV active		CN7.5	
O5	Enabling WEB Drive	C	ON = Drive enable		CN7.6	
O6	Cams enabling	C	ON = enable		CN7.7	
O7	Air blow 01	C	ON = EV active		CN7.8	
O8	Air blow 02	C	ON = EV active		CN7.9	
NAME	DESCRIPTION	OPERATION		CONNECTOR	CLAMP	HARDWARE
O9	Quick Accessory	C	ON = EV active		CN4.2	J1-P20-FZ20
O10	Anti-static bars	C	ON = EV active		CN4.3	
O11	Anti-jam	C	ON = EV active		CN4.4	
O12	Accessory 05	C	ON = EV active		CN4.5	
O13	Accessory 06	C	ON = EV active		CN4.6	
O14	Accessory 07	C	ON = EV active		CN4.7	
O15	Welder 01	C	ON = EV active		CN4.8	
O16	Welder 02	C	ON = EV active		CN4.9	
NAME	DESCRIPTION	OPERATION		CONNECTOR	CLAMP	HARDWARE
O17	Machine OK	C	ON = no alarms		CN12.2	J1-P20-FZ20
O18	Red lamp	C	ON = EV active		CN12.3	
O19	Green lamp	C	ON = EV active		CN12.4	
O20	Yellow lamp	C	ON = EV active		CN12.5	
O21	Beep	C	ON = EV active		CN12.6	
O22	Cams motor brake	C	OFF = brake active		CN12.7	
O23	Free	-	-		CN12.8	
O24	Free	-	-		CN12.9	

3.1.4.3 Bidirectional counter inputs (n° 2)

NAME	DESCRIPTION	CLAMP	CONNECTOR	HARDWARE
PHA1 PHB1	Encoder phases cams axis	CN9.2A CN9.3A		J1-P20-FZ20
PHZ1	Cam Axis zeroing Sensor	CN9.4A		
NAME	DESCRIPTION	CLAMP	CONNECTOR	HARDWARE
PHA2 PHB2	Encoder phases WEB axis	CN10.2A CN10.3A		J1-P20-FZ20
PHZ2	Photocell	CN10.4A		

3.1.4.4 Analog outputs (n° 2)

NAME	DESCRIPTION	CLAMP	CONNECTOR	HARDWARE
AO1	Cams axis drive command 0-10 Vdc	CN3.2		J1-P20-FZ20
AO2	WEB axis drive command +/- 10Vdc	CN3.3		

3.1.4.5 Analog inputs (n° 2)

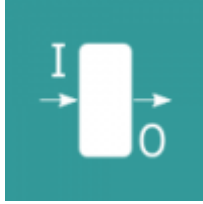
NAME	DESCRIPTION	CLAMP	CONNECTOR	HARDWARE
AI1	Welder Thermocouple 01	CN13.3		J1-P20-FZ20
AI2	Welder Thermocouple 02	CN13.6		

3.2 Diagnostic

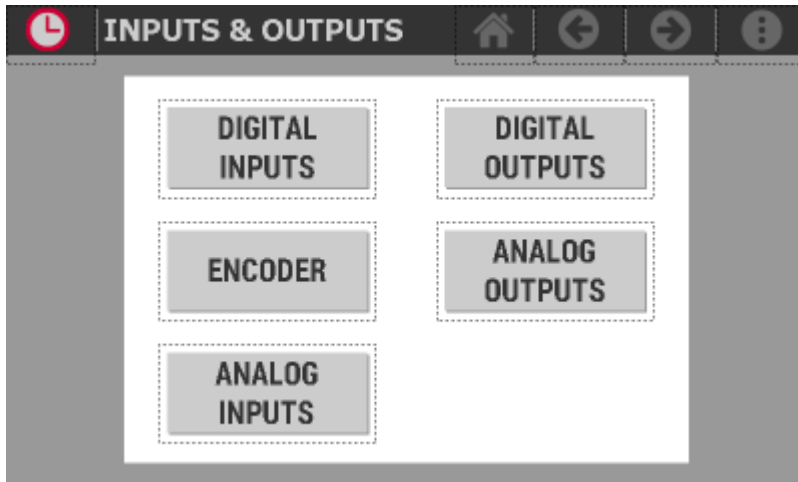
To access the diagnostics section:



- press **MENU** button on the top bar



- Access the diagnostic with the button

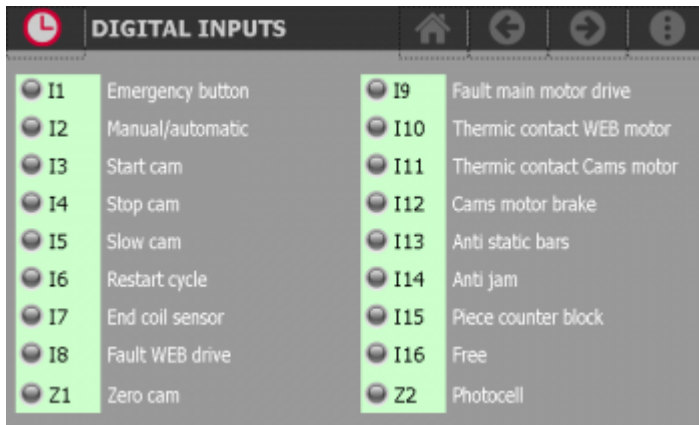


From this screen you can access the various diagnostic sections:

- Digital Input Diagnostics
- Digital Output Diagnostics
- Counts Diagnostics
- Analog Output Diagnostics
- Analog Input Diagnostics

3.2.1 Digital Input Diagnostics

Press the digital inputs button to access the following screen, where is showed the status of each input.



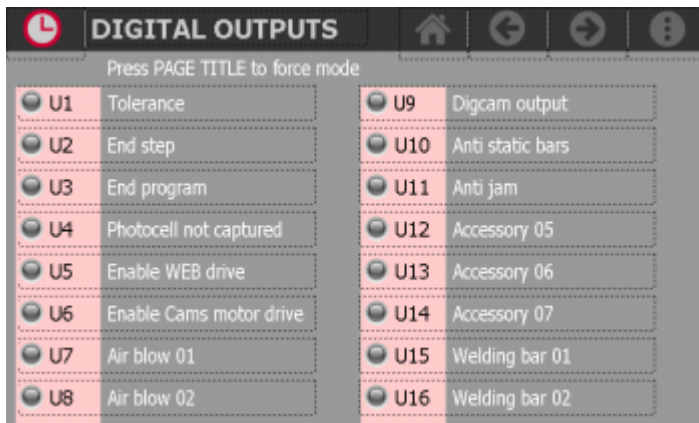
To scroll through the various pages, if present, use the  and  buttons on the top bar.



To return to the diagnostic menu press the  button

3.2.2 Digital Output Diagnostics

Pressing the button for the digital outputs will take you to the following screen, where is showed the status of each output.



To scroll through the various pages, if presents, use the  and  buttons on the top bar.

3.2.2.1 Forcing the outputs

To access the output forcing function:

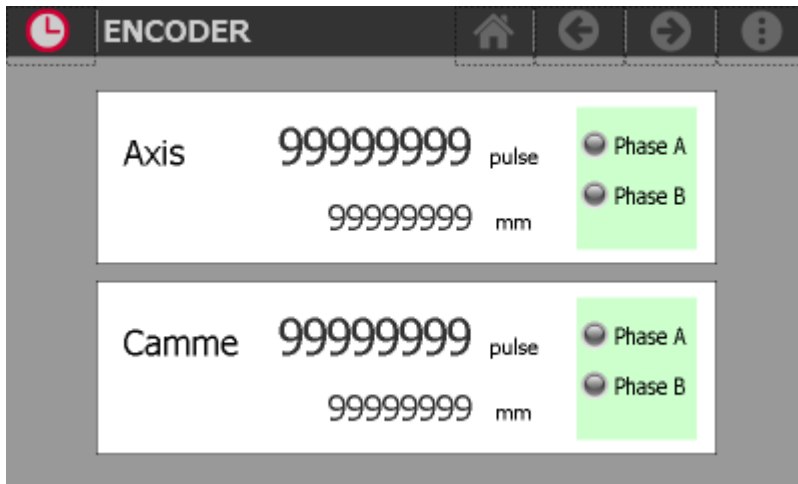
- Press top where the page title **DIGITAL OUTPUTS** is showed
- The title changes to **ACTIVE FORCING** and starts blinking → Active function
- Press the output to activate it. Press again to turn it off.
- Press the title space to turn off the function.
- When the page exits, the function automatically switches off.



To return to the Diagnostics menu press the button

3.2.3 Counts Diagnostics

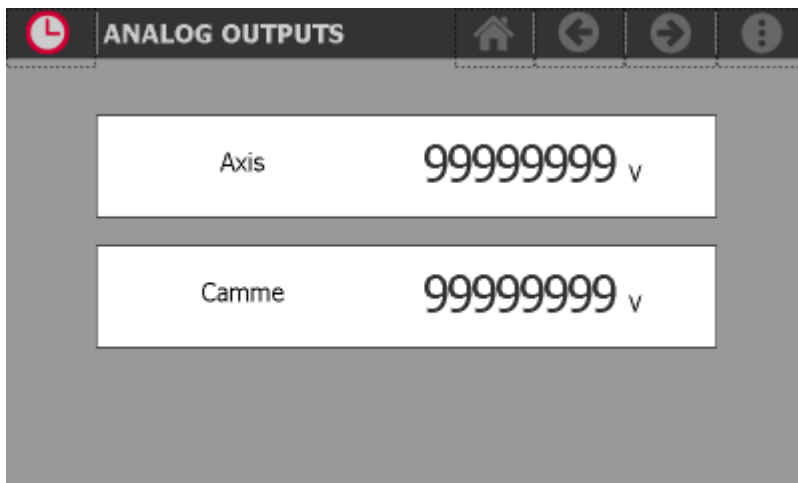
The following screen is accessed by pressing the Counts button.



To return to the Diagnostics menu press the button

3.2.4 Analog Output Diagnostics

By pressing the button for the analog outputs, the following screen is showed.



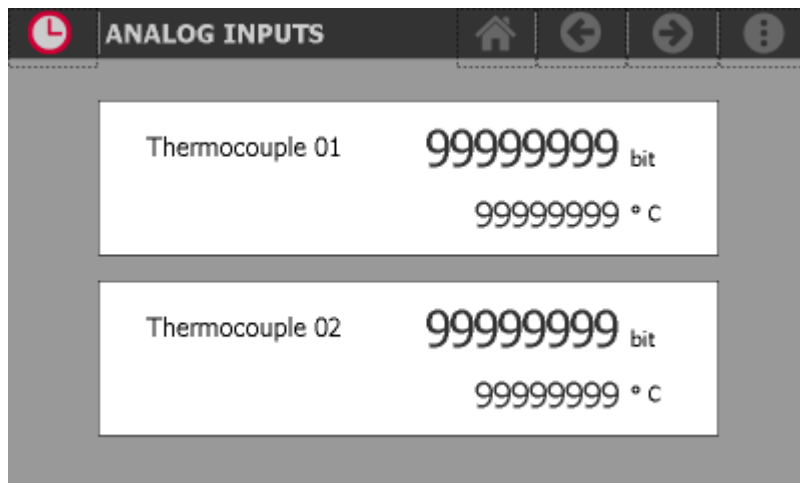
The analog output is expressed in volts.



To return to the Diagnostics menu press the button

3.2.5 Digital Input Diagnostics

Press the digital inputs key to access the following screen.



To return to the Diagnostics menu press the button

4. Assistance

For supplying you fast service, at the lowest cost, we need your support.

	
Follow all instructions provided in the MIMAT manual	If the problem remains, fill out the "Request Form for assistance" on the page Contacts at www.qem.it site. Our technicians will get elements essential for the understanding of your problem.

Repair

To provide you with an efficient service, please read and adhere to the instructions given [here](#)

Shipping

It is recommended to pack the instrument with materials that are able to cushion any falls.

		
Use the original package: it must protect the instrument during transport.	Attach: 1. A description of the anomaly; 2. A part of the electric scheme where the equipment is inserted 3. The planning of the equipment (set up, quotas of job, parameters...). 4. Request a quote for repair; if not required, the cost will be calculated in the final balance.	A full description of the problem, will help identify and resolve your problems fast. A careful packaging will avoid further inconveniences.

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