

Data : 07/07/19 Rev. 02 Sw. 1D

PR.T:018167

USE AND INSTALLATION HANDBOOK





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1. WARNINGS

The following symbols, accompanied by the words: "DANGER", "WARNING", indicate the potential hazard resulting from failure to observe the associated warning, as specified below:



DANGER RISK OF ELECTRIC SHOCK



Failure to observe this warning may cause personal injury and/or damage to property

Failure to observe this warning may result in electric shock



WARNING

DANGER

Failure to observe this warning may cause damage to the pump, the unit or the system

- CAUTION:

Make sure the pumps are fully primed before you start them.

- CAUTION:

Ensure the correct direction of rotation of the pumps.

- CAUTION:

The control panel must be connected by a qualified electrician in compliance with the electrical regulations in force.

- CAUTION:

The electric pump or the motor and the panel must be connected to an efficient grounding system in compliance with the electrical regulations locally in force.

- CAUTION:

Ground the unit before carrying out any other operation.

- CAUTION:

The electric pump or the motor can start up automatically.

- CAUTION:

As a general rule, always disconnect the power supply before proceeding to carry out any operation on the electrical or mechanical components of the unit or system. If you must work inside the electrical panel is also necessary to disconnect the internal battery (installed simultaneously with GSM module).

2. OVERVIEW

The purpose of this manual is to provide the necessary information for the proper installation, use and maintenance of XTREME². The user should read this manual before operating the unit. Improper use may cause damage to the machine and lead to the forfeiture of the warranty coverage. Always specify the model identification code and the construction number when requesting technical information or spare parts from our Sales and Service department. The instruction and warnings given below concern the standard version; refer to the sale contract documentation for modifications and special version characteristics. For instructions, situations and events not considered in this manual or in the sale documents, please contact our customer service.

Our units must be installed in sheltered, well-ventilated, non-hazardous environments and must be used at a maximum temperature of $+40^{\circ}$ C and minimum of -5° C (relative umidity 50% at 40°C not condensed).

3. HANDLING



The panel must be handled with care, as falls and knocks can cause damage without any visible external signs.

If for any reason the unit is not installed and starter immediately after it has reached its destination it must be stored properly. The external packaging and the separately packed accessories must remain intact, and the whole must be protected from the weather, especially from freezing temperatures, and from any knocks or falls.

PRELIMINARY INSPECTION: after you have removed the external packaging, visually inspect the control panel to make sure it has suffered no damage during shipping.

If any damage is visible, inform our dealer as soon as possible, no later than five days from the delivery date.

4. GENERAL DESCRIPTION

XTREME² is an electronic panel for direct start-up of 2 single or three phase pumps with dry running protection via $\cos -\phi$ and minimum current, remote management with gsm and app.

WILO shall not be liable for any damage caused or suffered by the unit as a result of its unauthorised or improper use.

GENERAL FEATURES

multi language; password; mains supply return delay; motor self-test; protections delay; 50-60Hz frequency; various start-up alternations; simultaneous motor operation; motor exclusion; start delay; settings via GSM-APP.

GENERAL SETTINGS

self-learning of motor data; min-max current (A);min cos φ ; tart delay setting; stop delay setting; max continuous operation; max start-ups per hours; max start-ups per minute; max klixon trips; service request.

DISPLAY VIEWS

voltage (V); frequency (Hz); motor absorption(A); motors cosφ ; pulseconunter; running hours; presence of GSM; pressure (bar); water level (mt); last alarms; service request.

ALARMS, ALARMS OUTPUT AND PROTECTIONS

acoustic alarm mode; luminous alarm mode; alarms via relay; 12V alarm output; alarm delay; alarm activation distinction; min-max water level; min-max voltage; phase error; frequency error; min-max motor current; min motors $cos\phi$; motors klixon trip; max klixon trips; water in oil chamber; max start-ups per hours; max start-ups per minute; max continuous operation

DEFAULT OPERATING MODES

CLEAN

min level probe or float switch input; pressure switch or float switch inputs; emptying-filling mode; 4-20mA sensor if present: > level-pressure views on display, > pressure-level alarm setting on display.

DARK

float switch inputs (normal or multi-contact types); max level float switch input; self-holding; emptying-filling mode; 4-20mA sensor if present: > level-pressure views on display, > pressure-level alarm setting on display.

DIGIT

min level probe or float switch input; 4÷20mA pressure-level probe input; motor start-up pressure-level setting; motor stop pressure-level setting.

MULTITANK

control of pumps on different systems; setting of control program for each pump; > pump 1 - possible logic modes: CLEAN, DARK, DIGIT; > pump 2 - possible logic modes: CLEAN, DARK; 4-20mA sensor if present: > pressure-level alarm setting on display; > level-pressure views on display; min level probe or float switch input; 4÷20mA pressure-level probe input; motor start-up pressure-level setting; motor stop pressure-level setting.

PAUSE/WORK

program allows managing the operation of the pumps only with two defined timing, independent of the inputs, the pause (downtime pump) and work (pump start-up time).

5. INSTALLATION



Fix the control panel for a stable support with screws and screw anchor using the holes arranged in the box (fig. 1) or the fixing bracket if present.

To fix the cables in their terminals use a tool of the proper size to avoid the damaging of the screws or of their seat. If use an electric screwier pay attention not to spoil the thread or the screws.

After the fixing, remove every plastic or metallic surplus (ex. Pieces of copper of the cables or plastic shavings of the box) inside the box before suppling power.



Line of supply current

Connect the unit at ground before carrying out any other operation.

The voltage input corresponds to the data written on the panel and on the pumps:

(**400V** ± 10% 50/60Hz × **Extreme 2-T**)

($230V \pm 10\%$ 50/60Hz × Extreme 2-M). Make sure that the power-supply-cable can bear the nominal current and connect it to the terminals of the general switch of the control panel.

If the cables are exposed, they must be appropriately protected.

The line must be protected with a differential magnetotermic switch measured in accordance with the regulations locally in force.

Line of motor power supply

Connect the unit at ground before carrying out any other operation.

The voltage input corresponds to the data written on the motors:

(400V±10% 50/60Hz three-phase) (230V±10% 50/60Hz single-phase).

Doing some starting make sure that the motors respect the right direction of rotation usually indicated by an arrow printed on the motors.

6. LIGHT INDICATIONS AND BUTTONS





7. DISPLAYS

The overall menu settings are composed of a series of horizontal menus that allows access to sets of horizontal and verticals parameters. As the following flowchart example:



























	Simultaneity Rotating numps (Change nump
	Max pumps nr.X + D=NO L=R 2=A X + Every XXX hours
	With the parameter "Rotating pumps" is possible to activate/select the mode in which the pumps will alternately start.
	 0=NO: setting "0" there will be no rotation of starting pumps. The pumps will start and stop depending on their own settings of activation and deactivation. Note: the condition for starting pump? will also start pump 1
	-1=R: setting "1" the rotation is activated with the following logic: At every activation of the first starting condition the pumps will start in a cyclic order; at every
	activation of the second condition will result in the start of the second pump. The stopping of the pumps will be by in reverse order, firstly stopping the pump that started last, and then stopping the pump that started first
Rotating pumps J=N0 L=R 2=A X	 2=A: setting "2" the rotation will happen based on the number of starts of each pump (displayed under the operating parameter "St XXX") to balance the number of starts between the pumps. The stopping of the pumps will order the pump with the least number of starts (in order to have it re-start next and increase the number of restarts to try to balance it). Setting "3" the rotation of the pumps will be based on the number of working hours of each pump (displayed under the operating parameter "h XXX") in order to balance the load and number of working hours between the pumps. The stopping of the pumps will be in order of the
	 most working hours. Setting "4" will activate the timer rotation: the rotation between pumps will be based on the programmable timer described in the next parameter ("Change Pump every XXX hour").
	 Setting "5" the rotation will have the following logic: At every activation of the first starting condition will result in a cyclic order of the pumps; at every activation of the second condition will result in the start of the second pump. The stopping of the pumps will be in sequence in which the pumps started. Firstly stopping the pump which started first and then stopping the pump that started last.
	The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 5. Factory default setting: 1.
NOTE: in the cas be activated aut NOTE: If there	The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 5. Factory default setting: 1. The pump intended to start doesn't activate (whatever the reason), the other pump will comatically (in the case is set to the parameter "Simultaneity Max pumps" to 2). is a need to manage the pumps separately is recommended to switch the program
NOTE: in the cas be activated aut NOTE: If there operating to MU	The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 5. Factory default setting: 1. e the pump intended to start doesn't activate (whatever the reason), the other pump will omatically (in the case is set to the parameter "Simultaneity Max pumps" to 2). is a need to manage the pumps separately is recommended to switch the program LTITANK
NOTE: in the cas be activated aut NOTE: If there operating to MU	The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 5. Factory default setting: 1. e the pump intended to start doesn't activate (whatever the reason), the other pump will omatically (in the case is set to the parameter "Simultaneity Max pumps" to 2). is a need to manage the pumps separately is recommended to switch the program LTITANK horizontal parameter press the button :
NOTE: in the cas be activated aut NOTE: If there operating to MU	The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 5. Factory default setting: 1. e the pump intended to start doesn't activate (whatever the reason), the other pump will bomatically (in the case is set to the parameter "Simultaneity Max pumps" to 2). is a need to manage the pumps separately is recommended to switch the program is a need to manage the pumps separately is recommended to switch the program LTITANK horizontal parameter press the button \bigcirc : Rotating pumps D=N0 l=R 2=A X \leftrightarrow Change pump Every XXX hours \leftrightarrow Restart Setting Restartl XXX min
NOTE: in the cas be activated aut NOTE: If there operating to MU o move to the next	The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 5. Factory default setting: 1. The the pump intended to start doesn't activate (whatever the reason), the other pump will commatically (in the case is set to the parameter "Simultaneity Max pumps" to 2). It is a need to manage the pumps separately is recommended to switch the program LTITANK horizontal parameter press the button : Rotating pumps IND 1=R 2=A X The parameter "Change pump every XXX hours" is related to the type of timer rotation that is enabled via the previous parameter. It is possible to set the timer to how many hours it will swap the starting priority: pump 1/pump 2; pump 2/pump 1. The range of value is from 1 to 999 hours. Factory default setting: 24h.
NOTE: in the cas be activated aut NOTE: If there operating to MU o move to the next	The range of value is from 1 to 5. Factory default setting: 1. The range of value is from 1 to 5. Factory default setting: 1. The pump intended to start doesn't activate (whatever the reason), the other pump will commatically (in the case is set to the parameter "Simultaneity Max pumps" to 2). The anneed to manage the pumps separately is recommended to switch the program tritrank horizontal parameter press the button \bigcirc : Rotating pumps $\square N \square \square^R \square^2 A X$ \Leftrightarrow $\square Pump \square \bigoplus \square^R \square Pump \square Pump \square Pump 2; pump \square Pump \square P.The parameter "Change pump every XXX hours" is related to the type of timer rotation that isenabled via the previous parameter. It is possible to set the timer to how many hours it willswap the starting priority: pump 1/pump 2; pump 2/pump 1.The range of value is from 1 to 999 hours.Factory default setting: 24h.horizontal parameter press the button \bigcirc:$





























NOTE: the setting of a under the submenu " needs to be consisten	the alarm level/pressure and commands of the pumps of operating mode DIGIT are Enable 4-20 mA" of the menu "General Settings". The setting of the level/pressure t with the logical of operating mode selection (empty or fill).							
The setting of all the parameters for the program operating mode DIGIT is complete.								
Refer to section "INSTALL	ATION EXAMPLES" for directions of the connections and the applications of the mode DIGIT.							
Similarly of the previous program operating mode, it is possible to select "Program MULTITANK" and set all its parameters.								
To proceed and set all the parameters of the operating mode MULTITANK press the button								
Program MULTITANK MULTITANK V Operation Mode Pump L L-L X G TH Fa	ith the parameter "Operation Mode Pump 1" it is possible to select one of the following modes r pump 1: =Operating mode CLEAN - EMPTY =Operating mode DARK - FILL =Operating mode DARK - FILL =Operating mode DIGIT - EMPTY =Operating mode DIGIT - FILL =Operating mode DIGIT - FILL ne "X" indicates the setting of the parameter to modify. actory default setting: 1 (CLEAN - EMPTY).							
NOTE: the setting of the alarm level/pressure and commands of the pumps of operating mode MULTITANK are under the submenu "Enable 4-20 mA" of the menu "General Settings". In addition, it is necessary to set the parameters "Stop P1" and "Start P1". To move to the next horizontal parameter press the button								
	Operation Mode Pump l l-L X ↔ Pump 2 l-4 X							
Operation Mode 1 Pump 2 1-4 X 3 4 1 Fa 1	The parameter "Operation Mode Pump 2" it is possible to select one of the following modes or pump 1: =Operating mode CLEAN – EMPTY =Operating mode CLEAN – FILL =Operating mode DARK – EMPTY =Operating mode DARK – FILL ne "X" indicates the setting of the parameter to modify. actory default setting: 1 (CLEAN – EMPTY).							
NOTE: for pump 2 the operating mode DIGIT is not available.								
To move to the next horizon	ontal parameter press the button 🕑 :							
	Operation Mode Pump 2 1-4 X MULTITANK							
Enable MULTITANK M	The parameter "Enable MULTITANK" will enable/disable the operating mode MULTITANK. The ode MULTITANK recognises the operating settings of the pumps installed. The enable the operating mode MULTITANK press the button to save its setting. The display ill show briefly the message "save" as confirmation that the setting has been saved. In the ain display the word "mlt" will show to indicate the selected program operating mode.							

The setting of all the parameters for the program operating mode MULTITANK is complete.

Refer to section "INSTALLATION EXAMPLES" for directions of the connections and the applications of the mode MULTITANK.

Similarly of the previous program operating mode, it is possible to select "Program PAUSE/WORK" and set all its parameters.

To proceed and set all the parameters of the operating mode PAUSE/WORK press the button



Program PAUSE/WORK ▼	With the parameter "Starting cycle Pause/Work" is possible to select if the operating program "PAUSE/WORK" must start the operating cycle from the pause time or work time. The "X" indicates the setting of the parameter to modify. 0=PAUSE								
Starting cycle	1=WORK								
Pause/Work X	Factory default setting: 0.								
-									
To move to the next ho	prizontal parameter press the button 💟 :								
	Starting cycle Pause/Work X								
Pause Time Pl XXXmin	With the parameter "Pause Time P1" is possible to set the duration of the pause time in the operation of the pump P1. The "X" indicates the setting of the parameter to modify.								
	Factory default setting: 200.								
To move to the next ho	prizontal parameter press the button 💽 :								
	Pause Time Pl XXXmin								
Work Time Pl XXXmin	With the parameter "Work Time P1" is possible to set the duration of working time in the operation of the pump P1. The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 999 minutes. Factory default setting: 100.								
To move to the next ho	prizontal parameter press the button ⊵ :								
	Work Time Pl XXXmin + Pause Time P2 XXXmin								
Pause Time P2 XXXmin	With the parameter "Pause Time P2" is possible to set the duration of the pause time in the operation of the pump P2. The "X" indicates the setting of the parameter to modify. The range of value is from 1 to 999 minutes. Factory default setting: 200.								
To move to the next ho	prizontal parameter press the button 💟 :								
	Pause Time P2 XXXmin + P2 XXXmin								









It is possible to activate the sound alarm output (and also all the other alarm outputs described later) for 15 types of alarms. One or more alarms can be activated as desired. To activate an alarm set the value from "0" to "1" in the following table

		1	1	1	1	1	1	1	1	1	1			1	1				
		0	•	<u> </u>	<u> </u>	<u> </u>	0	•	<u> </u>	•	•	<u> </u>		<u> </u>	<u> </u>	<u> </u>	-	t ha dis	
	ALANH OT		Ť	Ť	Ť	Ť	Ť	Ť	Ť		Ť	Ť	Ť	Ť	Ť	Ť		t be uis	ableu
1	V Min, V Max	Ľ																	
2	Phase Seq., Min Hz, Max Hz																		
3	4-20 mA device malfunction																		
4	Min level																		
5	Max level																		
6	Pump 1 alarms																		
7	Pump 2 alarms																		
8	Pump 3 alarms																		
9	I Min, cosφ Min																		
10	I max																		
11	Service																		
12	Max start per minute, Max start per hour																		
13	Max Klixon interventions																		
14	Detection of water in oil chamber																		
15	Max continous working																		
16	(only whit GSM modem) Absence/Return mains	┣──																	
17	(only whit GSM modem) Black-out Max level																		
18	(only whit GSM modem) Low battery	┣───																	
For e The) propo "Inte ASSO To go	example, the mask "10011000000 XTREME ² always shows to display of erly. The alarms "I Min, cos φ Min" ervention Klixon", "Water in Oi OCIATED TO AT LEAST ONE PUI b back to the horizontal menu pres Configuration GSM Alarm	0000' each I Cha MP; 1 ss the	' will alar max amb THEI e but	acti m de er" RE M ton	vate etecto Serve "M 1UST	the ed, I ice ax (Bacl Bacl	follov out it Requ Conti ACTI k to th	will a est' nuo IVE	alarr activ <i>, "M us O</i> AT L orizo	ns: \ ate t ate t ax S pera EAS	/ Mir he a Start tion T OI men igur al A	n, V larm ts pe n", 1 NE O u "Co ratio	Max, outp or Min of TH onfigu	Min out o nute E AC E "A uratio	Leve nly i ///c ////	f it's f it's arei ATEL RMS	d Alar	evel. gured IST B P".	E
Press	s the button 💽 to move to the co Configuration Sound Alarm	nfigu	ratio	on of Cor Vis	the nfig sual	next urat Ala	ion	n ou	tput ⊷	: Conf Rela	igur y l	ati	on						
Con Vis	figuration ual Alarm Fiashing alarm characteristics Factory default	aram on GS mA) n bu : 12 t sett	eter SM c with t it Vcc, ing:	°Col ard (fast cou 30 r 100	nfigu (ther con c Id b mA m 1111	ratio efor onno e u nax. .111	on So e, GS ector ised 0011	und M op (see for).	Alarn otion e pag any	m" w mus je 41 othe	vill s t be .) er d	et th pres This evice	ne op sent) is se e wit	erati . It i et-up h th	ng i s an to ne f	mode outj be c ollov	e of t put vo onneo ving	he vis oltage cted t electr	sual 12 to a rical





16. ALARM LIST

ALARM		CAUSE	REMEDY					
Max Continuous Working Pump X	R	The pump indicated has reached the continuous operation time set by parameter: 'Max Continuos Working' (p. 24)	Check the system or the function of the inputs					
Max Starts per Minute Pump X	R	The pump indicated has reached the number of starts in a minute set with parameter: 'Max Starts per Minute' (p. 24)	Check the system or the function of the inputs					
Max Starts per Hour Pump X	R	The pump indicated has reached the number of starts per hour set with parameter: 'Max Starts per Hour' (p. 24)	Check the system or the function of the inputs					
Water in the Oil Chamber Pump X	R	The contact of the sensor inside the pump indicated detects the presence of water in the oil chamber	Check pump					
Operation Klixon Pump X	A	The klixon contact of the pump indicated is open	Check pump or jumper the input if not used					
Dry Running Pump X	R	The pump indicated has absorbed the minimum current value set by parameter: 'Min Current PX (p. 28) for the time set with the parameter: 'PX Alarm Delay Imin '(p. 23) or reached the minimum value of cos set by parameter: 'Cos Min PX' (p. 28) for the time set with the parameter: 'PX Alarm Delay cos (p. 23)	Check the fluid level in the pump suction or repeat the autoset parameters					
Overcurrent Pump X	R	The pump indicated has absorbed the maximum current set with the parameter: 'Max Current PX (p. 27) for the time set with the parameter: PX Alarm Delay Imax' (p. 23)	Check the pump and repeat the self parameter setting					
Power Failure Alarm	A	Alarm on APP sent only with GSM module present and active	Check connections or cable connections of power to the panel					
Abnormal Frequency (Hz)	A	The supply frequency has exceeded the limits set by the parameter: 'Max Difference Freq.' (P. 17) for the time set with the parameter: 'Delay Alarm Freq.' (P. 17)	Verify and monitor the power frequency to the panel					
Wrong Phase Sequence Alarm	R	Incorrect phase sequence of the supply voltage (This alarm only XTREME-T)	Check the connections or cables or reverse two phases of power to the panel					
Phase Loss Alarm	R	Absence of a phase of the supply voltage (This alarm only XTREME-T)	Check connections or cable connections of power to the panel					
Maximum Voltage Vmax Alarm	R	The supply voltage has exceeded the maximum value set by parameter: 'Setting Alarm Vmax' (p. 16) for the time set with the parameter: 'Delay Alarm Voltage' (p. 16)	Verify and monitor the supply voltage of the panel					
Minimum Voltage Vmin Alarm	R	The supply voltage was above the minimum set by parameter: 'Setting Alarm Vmin' (p. 16) for the time set with the parameter: 'Delay Alarm Voltage' (p. 16)	Verify and monitor the supply voltage of the panel					
Max Lev-Press Alarm	A	The alarm input at the highest level/pressure is closed	Check the installation or operation of alarm devices					
Min Lev-Press Alarm	A	The alarm input of a minimum level/pressure is opened	Check the installation or operation of alarm devices					
4÷20mA Sensor Disconnected	R	The sensor input is not connected	Check sensor or the polarity of the cable connection					
Anomaly to the 4÷20mA Sensor	R	The measurement sensor never varies	Check sensor or the polarity of the cable connection					
Pump X Disconnected	Check connections or cable connections power the pumps							
Service Request Pump X	R	The pump indicated has exceeded the number of working hours required for the maintenance set with the parameter: 'PX Request Service' (p. 26)	Service the pump					

X = variable that the system replaces with the number of the pump. R = RETENTIVE (requires a manual reset even if the cause of the alarm disappears) A = AUTORESET (reset the alarm if it disappears the cause)

17. ELECTRIC CONNECTIONS









18. APPLICATION EXAMPLES

DARK [empty]



DARK [fill]











MULTITANK POMPA 1 - CLEAN [empty] POMPA 2 - CLEAN [empty]



MULTITANK

POMPA 1 - CLEAN [empty] POMPA 2 - DARK [empty]



MULTITANK POMPA 1 - DARK [empty] POMPA 2 - DARK [empty]



MULTITANK

POMPA 1 - DIGIT [empty] POMPA 2 - CLEAN [empty]



19. STOP OF THE PUMPS



Motor stop may occur in the following ways:

- In "manual" by releasing the MANUAL button (after the time set in parameter "Turn-Off MANUAL ");
- In "automatic" mode when there is no consensus from the control inputs or by pressing "0" button;
- In "automatic" mode by pressing the "STOP" button from Remote-App (if active);
- Turning the main interlock switch to "0" position.

20. MAINTENANCE

XTREME² does not require any routine maintenance provided that their working limits are observed. Any maintenance operations must be performed by qualified and experienced personnel, in compliance with the safety regulations in force.

DANGER!

Make sure that the control panel is disconnected from the power supply before performing any maintenance operations.

21. WASTE DISPOSAL

After the control panel has been installed and started, the customer must provide for the appropriate elimination/disposal of the waste materials according to the legislation locally in force. If the control panel or parts of it must be taken out of service and dismantled, follow local regulations regarding sorted waste disposal. Refer to the appropriate recycling centres.

CAUTION: Contamination of the environment with hazardous substances such as battery acid, fuel, oil, plastic, copper, etc., may cause serious damage to the environment and endanger people's health.

22. SPARE PARTS

Always state the exact model identification number and construction number when requesting technical information or spare parts from our sales and service centre.

Use only original spare parts when replacing any faulty components.

The use of unsuitable spare parts can cause malfunctions, personal injury and damage to property.





DECLARATION OF CONFORMITY

CE

The manufacturer:

FOURGROUP S.a.s. di Brox S.r.l. Via E. Fermi, 8 – 35020 Polverara (PD) – ITALY

DECLARES UNDER HIS OWN RESPONSIBILITY THAT THE MACHINE DESCRIBED BELOW :

XTREME2-M/3Hp-S

ARE IN CONFORMITY WITH COMMUNITY DIRECTIVES REGARDING:

• Low voltage 2014/35/EU

- Electromagnetic compatibility 2014/30/EU
- Directive RoHS 2011/65/EU

AND AS APPLICABLE TO HARMONIZED STANDARDS:

- EN 60204-1
- EN 61000-6-2
- EN 61000-6-4

Moreover Mr. Grigoletto Walter, as the legal representative of the company, is the person authorized to compile the technical documentation file.

Polverara – Italy, 07/02/2019

Technical Manager (Grigoletto Per. Ind. Walter)

DECLARATION OF CONFORMITY

CE

The manufacturer:

FOURGROUP S.a.s. di Brox S.r.l. Via E. Fermi, 8 – 35020 Polverara (PD) – ITALY

DECLARES UNDER HIS OWN RESPONSIBILITY THAT THE MACHINE DESCRIBED BELOW :

XTREME2-T/10Hp-S

ARE IN CONFORMITY WITH COMMUNITY DIRECTIVES REGARDING:

• Low voltage 2014/35/EU

- Electromagnetic compatibility 2014/30/EU
- Directive RoHS 2011/65/EU

AND AS APPLICABLE TO HARMONIZED STANDARDS:

- EN 60204-1
- EN 61000-6-2
- EN 61000-6-4

Moreover Mr. Grigoletto Walter, as the legal representative of the company, is the person authorized to compile the technical documentation file.

Polverara - Italy, 07/02/2019

Technical Manager (Grigoletto Per. Ind. Walter)

24. GENERAL CONDITIONS OF SALE

(M.COM.1.1 Rev.1 del 26/07/2012)

All sales entered into by Fourgroup S.r.l. (the Vendor) are to be governed exclusively by the following General Conditions of Sale. Any clause or condition drawn up by the Buyer shall become null and void if found to be in conflict with the following conditions.

1. Quotes, orders and order confirmation

1.1. Estimates issued by Fourgroup S.r.I., including the description, technical features and prices of the goods shall not in any case be considered as a binding sales agreement, but rather a quote. The conditions set forth in said quote shall lose all validity and effect thirty days from the time they are transmitted to the Customer, unless Fourgroup S.r.I. receives an Order from the Customer in the meantime.

The Buyer's Order must include indication of the quantity and name of the products required. Unwritten orders (required by phone or verbally) have to be confirmed with a written reply by the buyer; otherwise Fourgroup doesn't take charge of any kind of mistakes about orders proceeding.
 The mere sending of the Order by the Buyer shall imply that the Buyer has read and is familiar with all these General Conditions of Sale, which

shall consequently be fully accepted unconditionally and without restriction by the Parties. **1.4.** Buyer's Orders only become binding for the Fourgroup S.r.I. after the latter has sent an Order Confirmation to the Buyer. The Buyer will totally accept these General Condition of Sales, products quantity and prices, once two days have elapsed from the receiving of order confirmation even if the buyer doesn't send the same order confirmation stamped and countersigned to Fourgroup S.r.I.

1.5. Information provided in catalogues, schedules and price-lists is not binding for Fourgroup S.r.l., which reserves the right to make any modification whatever to its products and to prices thereof in view of which, the Fourgroup S.r.l. is to be considered bound only by such details as appear in the relative Order Confirmation.

1.6. Fourgroup S.r.I.'s catalogues have been drawn up with the utmost attention in order to ensure the accuracy of information, however, Fourgroup S.r.I. declines responsibility for any errors or omissions contained in the same, as the Parties are only bound by the contents of Orders, Order Confirmation and these General Conditions of Sale.

2. Conclusion of the contract

2.1. The contract of sale shall only be considered as concluded with Fourgroup S.r.l.'s explicit acceptance thereof by means of the Order Confirmation issued by Fourgroup S.r.l.

3. Prices

3.1. The contract prices are those set forth in the Order Confirmation, and are to be considered as being for merchandise made ready by Fourgroup S.r.I. "ex-works" (EXW), according to Incoterms (International Commerce Terms).

3.2. Any amendment to the contract requested by the Buyer after its conclusion shall be null and void unless accepted in writing by Fourgroup S.r.l., specifying new terms of delivery, prices and terms of payment where applicable.

4. Delivery dates

4.1. The terms of delivery stated on the Order Confirmation are indicative, without prejudice to Fourgroup S.r.l.'s undertaking to observe the same as far as possible.

4.2. In any event, given the indicative nature of the terms of delivery, Fourgroup S.r.l. shall in no circumstances be held responsible for any direct or indirect damage to the Buyer on account of late delivery, unless shipment date has been guaranteed in a written way by Fourgroup Srl accepting an agreement with dayly penalty clauses in case of delay.

4.3. Fourgroup S.r.I. is entitled to postpone the delivery deadline or suspend the delivery of the contractual material, at its unchallengeable discretion: **a)** should the Buyer fail to observe the conditions of payment established or be late in fulfiling its contractual obligations (such as, by way of a nonlimiting example, the sending of advances, granting of guarantees, issue and presentation of credit instruments and other financial fulfilments) including those relating to previous relations with Fourgroup S.r.I.;

b) force majeure and like instances, such as, by way of a non-limiting example strikes, lock-outs or abstention from labour, epidemic, war, requisition, fire, flood, processing incidents and stoppages and/or delays in transportation, blackout or inadequacy of power supplies and any other event that cannot be attributed to Fourgroup S.r.l. or its suppliers;

c) failure on the part of the Buyer to provide Fourgroup S.r.l., in good time, with any information it has undertaken to provide and necessary for the supply and/or materials to be delivered.

d) when amendments are made to the Order, even with Fourgroup S.r.l.'s acceptance;

e) in the event of difficulties in procurement of raw materials.

In cases in which suspension of supplies or extension in delivery deadlines are due to causes that can be referred in any way to the Buyer (such as, by way of a non limiting example, those cases set forth in the previous paragraph under points a, c and d), Fourgroup S.r.I. shall be entitled to claim compensation from the Buyer for the damage suffered.

4.4 Delayed delivery shall not in any case entitle the Buyer to claim for compensation for damage.

5. Suspended or cancelled orders

5.1. In the event of the Buyer's suspending or cancelling an order, Fourgroup S.r.l. reserves the right to invoice the Buyer in respect of:

a) the cost, calculated pro-rata, of materials utilized and of work accomplished in filling the order thus far. The merchandise in this instance remaining at the Buyer's disposal;

b) increased expenditure ensuing to Fourgroup S.r.I. from the Buyer's failure to settle, in addition to 20% of the difference between the order sumtotal and the amount previously arrived at by the application of point a).

6. Deliveries

6.1. Delivery is usually understood as ex-works (EXW) at Fourgroup S.r.l.'s premise.

6.2. Specifically, delivery may be said to have taken place, to all intents and purposes, with the sending of notice (which may simply take the form of an invoice) either to the effect that merchandise is available for collection by the Buyer, or to the effect that it has been handed over to the freight company.

6.3. Once notice has been received that the goods are ready, the Buyer must swiftly indicate the name of the freight company, when appointed by the same, which will collect the goods. The Buyer must also arrange insurance cover for transportation.

6.4. In case of the late collection of merchandise made ready by Fourgroup S.r.l. for any reason whatsoever not attributable to lack of goodwill on the part of Fourgroup S.r.l., the goods shall be considered delivered starting from the communication that the goods were ready for collection, with the following consequences:

a) Fourgroup S.r.I. shall be entitled to issue the relative invoice and claim fulfilment of the terms of payment established;

b) Fourgroup S.r.l. may package, transport or store the material at the Buyer's expense, without prejudice to its right to claim for any damage suffered, including the costs for warehousing, keeping and storage of the goods.

7. Payment

7.1. Payments must be remitted to Fourgroup S.r.l.'s place of business, and made in accordance with such conditions as are agreed; any remittance made at location or in manner differing therefrom, may not be deemed valid and shall consequently not have a redeeming effect for the Buyer

7.2 In the event of late payment at the agreed deadlines, Fourgroup S.r.l. shall be entitled to charge penalty interest pursuant to Legislative Decree no. 231 of 9th October 2002.

7.3. Any claims or disputes give no right to the Buyer to suspend or delay the payment of invoices.

7.4. The issue of bills of exchange, IOUs, drafts, cheques or any other form of payment or guarantee shall not cause any amendment to the contract or any of the contract clauses (specifically, it shall not change the place of jurisdiction in the case of a dispute) and shall be exclusively considered as aimed at facilitating the definition of the relationship, without having any novation effect.
 7.5. Advance payment to Fourgroup S.r.I. shall always be non-interest bearing.

8. Freightforwarding

8.1. All transactions regarding transport, insurance, customs and excise, handling, and delivery are at the care, expense and risk of the Buyer, whose

responsibility it is both to check the merchandise upon arrival and to make any claim against the freight company by direct approach, even where merchandise has been dispatched carriage-paid.

8.2. In those cases where Fourgroup S.r.l.'s transport facilities are utilized for shipping merchandise, the latter is to be dispatched, ex-works at best, with the Buyer duly assuming total responsibility thereof.

9. Claims

9.1. Any claim or contestation on the part of the Buyer with regard to merchandise supplied, must be forwarded in writing to Fourgroup S.r.l. within 8 working days of the date of delivery of the goods and sent to Fourgroup S.r.l.

9.2. In the event of claims for tampering with or shortage of goods, the Buyer shall promptly notify the freight company in writing at the time the goods are received.

10. Warranty

10.1. Fourgroup S.r.l. guarantees the good operation of the standard Fourgroup S.r.l. products for 12 months from the date of their dispatch. This warranty period could be extended and become 18 months if the goods have stand in our retailer's warehouses.

10.2. The warranty is limited to repair or replacement of parts at Fourgroup S.r.l.'s unchallengeable discretion, forwarded carriage-paid to an address specified Fourgroup S.r.l., which show recognizable defects due to defective materials or manufacturing. The parts replaced remain property of Fourgroup S.r.l..

10.3. The warranty does not cover parts that are subject to natural wear or deterioration (such as, by way of a non-limiting example, seal rings, fuse, filters, warning light).

10.4. No other compensation of any kind is envisaged by the warranty, neither can there be any question of claims for damages of any kind, direct or indirect, (including by third parties), even in respect of temporarily suspended use of the merchandise purchased. Examination of such defects and the causes thereof is to be carried out at one of Fourgroup S.r.l.'s factories, by Fourgroup S.r.l..

10.5 Expenses relating to operations (such as, for example, labour, dismantling, reassembly, transport, board and lodgings) by Fourgroup S.r.l.'s personnel to outside locations for the purpose, are chargeable to the Buyer, even in case the right to repairs under warranty has been acknowledged. Fourgroup S.r.l. will be chargeable only for the costs of replaced parts and the time needed to replace them.

10.6. The warranty ceases to be effective for products stored, installed utilized or maintained in a negligent or improper mannner, i.e. not in accordance to Fourgroup S.r.I.'s instructions, or modified and/or repaired in any way whatsoever, or entirely or partially disassembled

10.7. The warranty also excludes damages and/or defects and/or abnormalities deriving from external components (such as, by way of a non-limiting example lightnings, atmospheric discharge etc.).**10.8.** The warranty mentioned in article 10 replaces and excludes any other form of warranty, even legal.**10.9.** The Buyer's entitlement to the warranty mentioned in this article shall be null and void in the case of non-performance of even just one of the

contractual obligations assumed, specifically as regards the conditions of payment.

10.10. Any repairs under warranty and/or not under warranty are to be required in writing by the Buyer to Fourgroup Srl, writing the serial number of the product, defect claimed, mentioning purchasing document.

10.11. For replaced or repaired parts and for these alone, the warranty period recommences and void the same day of the expiry date of the warranty of the product or of electrical equipment.

11. Liability

11.1. Should Fourgroup S.r.I. be liable for faulty products, the compensation shall not in any case exceed the purchase price of the same faulty products.

11.2. Fourgroup S.r.I. shall not in any case be liable for indirect damage such as, for example, loss of clientele, turnover, production, profit, image or any damage to the Buyer for any action taken against it by third parties.

11.3. Fourgroup S.r.l. shall not in any case be liable when product defects are due, by way of a non-limiting example, to:

a) improper, incorrect or excessive use;

b) improper, incorrect or inadequate maintenance

c) product use that is unusual or contrary to Fourgroup S.r.l.'s warnings or, in any case, different to its intended use;

d) use of product with non-original components;

e) improper conservation

12. Applicable law, jurisdiction and place of jurisdiction

12.1. Any dispute concerning the stipulation, validity, interpretation, execution and termination of this agreement shall be governed by Italian Law and the court of Padova shall have sole jurisdiction, with the exclusive jurisdiction of the Italian judge, with the explicit exclusion of any other court.

13. Proprietorship of goods. Indemnity

13.1. The property of the goods forming the subject of this sale is of Fourgroup S.r.l. and shall be transferred to the Buyer only upon full payment of the agreed price by the Buyer pursuant to articles 1523 f. of the Italian Civil Code.

13.2. Non-payment within the established terms of even just one instalment amounting to over one eighth of the sale price or non-payment of two instalments regardless of the sum of the same, according to the agreed terms, shall automatically invalidate the Buyers' acceleration clause, with Fourgroup S.r.I. consequently being entitled to full and immediate payment, in a single settlement of the full residual credit.

13.3. Furthermore, when preferred by Fourgroup S.r.I., it shall be entitled to terminate the agreement and consequently obtain immediate return of the material delivered, withhold as indemnity, all the installments paid and demand payment of the instalments expired and 3/5 (three fifths) of those yet to expire, without prejudice to compensation for further damage.

14. Form of the agreement

14.1. This agreement represents the only negotiation instrument governing relations between the Parties.

14.2. Any agreements to derogate, amend and/or supplement these General Conditions of Sale shall be stipulated and proven in writing. **14.3.** The Buyer hereby agrees to have received and carefully examined the technical documentation provided by Fourgroup S.r.I., drawn up in Italian

and English, regarding the material acquired.

15. Invalid clauses

15.1. The Parties hereby explicitly agree that the invalidity of one or more provisions of this agreement shall not affect the validity of the agreement as a whole.

The Buver

Pursuant to article 1341, subsection 2 of the Italian Civil Code, the Parties hereby declare to have negotiated, carefully read and consequently to unconditionally approve the following clauses of these General Conditions of Sale:

1. exclusion of Fourgroup S.r.l.'s responsibility in the preparation of catalogues;

2. conclusion of the agreement;

3. exoneration from responsibility for late delivery; Fourgroup S.r.l.'s right to suspend delivery; Buyer's renunciation of termination of contract and damage compensation for delay in performance by Fourgroup S.r.l.;

- solution for suspension or cancellation of orders;
 renunciation to suspend or delay payment; penalty clause;
- 6. term for complaints and expiry;
- 7. warranty: discipline and limitations;
- 8. applicable law, jurisdiction, and place of jurisdiction;
- 9. proprietorship and indemnity;

The Buyer

Please note that the above mentioned General Conditions of Sale can be consulted on and downloaded from our website www.fourgroup.it