

USER MANUAL

DG 2201 Display Panel

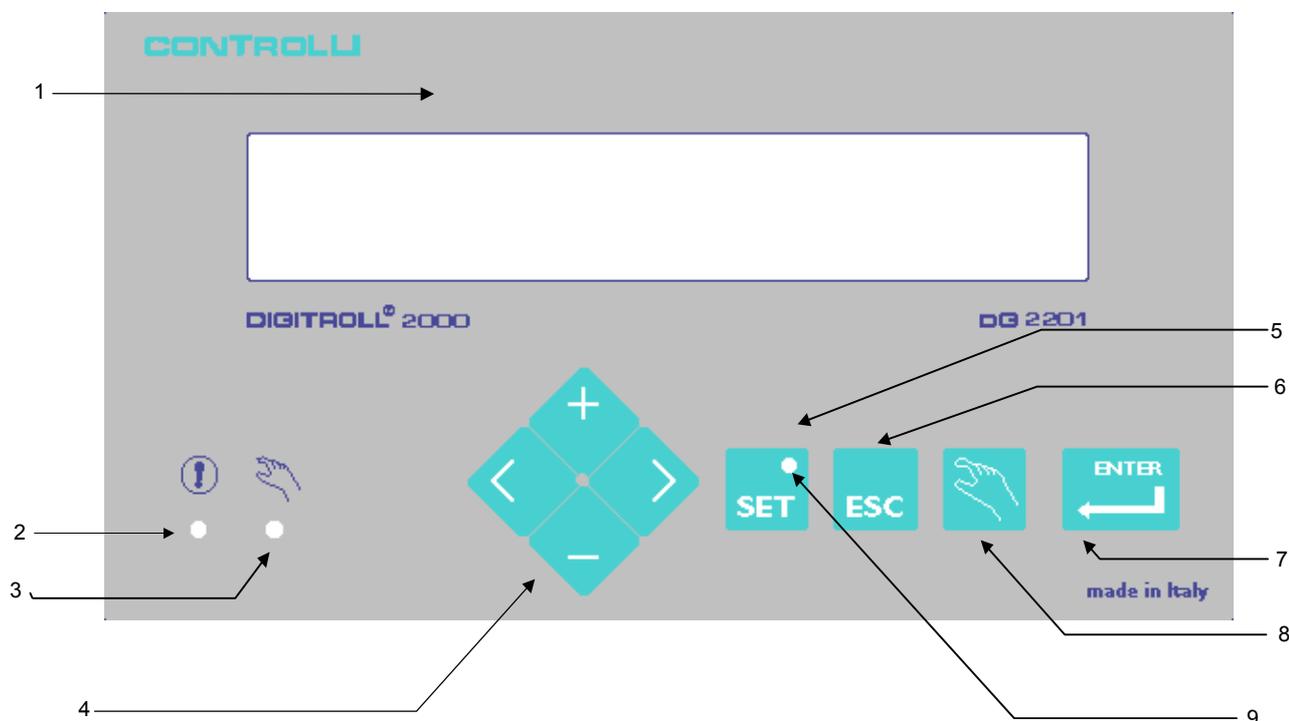
The purpose of this manual is to inform you about the use of the product. Data relating to OPERATION, INSTALLATION AND START-UP are included in the relevant data sheet (p.n. DBL032E), which is always enclosed in the product package.

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FRONT PANEL DESCRIPTION

HOW TO USE THE KEYS



- 1) 4 lines x 40 rows display
- 2) Active alarm LED:
off when no alarm is active inside the Controller
blinking with at least one active is indicated, and until the user has not accessed to the visualization pages of the alarms themselves.
- 3) Start "LED":
steadily lighted after starting procedures have been completed (Key 8).
- 4) Shift keys to move cursor within a page, (left = previous parameter, right = next parameter), and to modify the numerical parameters (increase, decrease).
- 5) Access key to "Program" mode, enabling change of selected parameter value.
- 6) Esc key to return to main menu.
- 7) Enter key to acknowledge parameters change.
- 8) Access key to "Start" mode.
- 9) "Program" LED:
steadily lighted with "Program" mode active.

Hidden line display

Should a page consist of more than 4 lines, the below mentioned procedure will have to be observed in order to display the hidden lines:

- Press either  or  until the cursor gets to the character on the last row that indicates “high” or “low” and thus points out the presence of hidden lines
- Press either  or  until the line(s) appears

Return to source page

Getting back from any current page to its source page requires the simple pressure of  and the presence of the cursor (anywhere) within the page.

Note the display panel switches back to main page after no key has been pressed for about 5 minutes.

Return to main page

In order to get back to main page press repeatedly , until “CONTROLLER STATUS PAGE” appears (the cursor may be positioned anywhere within the page) :

B	U	I	L	D	I	N	G		N	E	T				C	E	N	T	R	A	L		C	O	N	T	R	O	L	L	E	R			
S	U	B	N	E	T		1	0			N	O	D	E		3																			
D	A	T	E		T	U	E		1	3		F	E	B		2	0	0	3							T	I	M	E		1	6	:	4	3
												P	R	G	M	:		D	G	2	0	0	2				v	.	4	.	0	.	6		

Operating time display change

Into "IOC index" page or "Modifiable parameters" page, when the device operating time is displayed, at the beginning is in seconds.

Pushing continuously the  key, the time in minutes, hours and seconds is cyclically displayed.

The eventual size change is carried out taking into consideration the measure displayed in that moment.

Users ' setting

When displaying "USER DEFINITION PAGE", the blinking cursor is on the left of user identification number:

	U	S	E	R		N	U	M	B	E	R				P	A	S	S	W	O	R	D				P	R	I	O	R	I	T	Y			
					1													9	9	9							1	0	0							
					2													8	8	8								7	5							
					3													7	7	7								5	0							
					4													6	6	6								2	5							
					5													5	5	5								7	5							

- Press either  or  until the cursor reaches the value to be changed
- Press either  or  until the desired value is attained
- Repeat the a.m. sequence for the value to be changed
- Press  to confirm

"CONTROLLER STATUS PAGE" will be displayed again.

Note no more than 5 identified users may be registered; an appropriate character on the last row of both the first and last line indicates the opportunity to display hidden lines.

In order to display hidden lines:

- Press either  or  until the cursor gets on the character in the last row which indicates either "high" or "low"
- Press either  or  until the desired line appears

Note a record of identified users (if any) an relevant passwords should be carefully kept; in case this information were lost or forgotten, a new configuration of controller will be required to delete existing users records.

Data display and programming

Once users and relating passwords have been configured, i.e. whenever the display panel is turned on after the very first time, "CONTROLLER STATUS PAGE" will appear; this contains a summary of the information concerning controller position inside the network, current date and time, implemented software package.

B	U	I	L	D	I	G	N	E	T	W	O	R	K			C	E	N	T	R	A	L			C	O	N	T	R	O	L	L	E	R	
S	U	B	N	E	T		1	0			N	O	D	E		3																			
D	A	T	E		T	U	E	2	5	3		F	E	B		2	0	0	3							T	I	M	E	1	6	:	4	3	
														P	R	G	M	:		D	G	2	0	0	2				v	.	4	.	0	.	6

Press  and select the page on which the data has to be searched:

I	N	D	E	X			I	O	C																										
T	I	P	I	C	A	L	S																												
D	I	A	G	N	O	S	T	I	C		A	L	A	R	M	S																			
A	L	L		A	L	A	R	M	S																										

- Pressing either  or  to select the line

- Pressing , to get into the environment relating to the selected line, i.e.:

- By choosing "INDEX IOC" line, a page is entered on which modifiable parameter values, inside the controller may be found through their index on the list inside the controller and afterwards displayed and changed.
- By choosing "TYPICALS" line, a page is entered on which parameters - grouped and subdivided for typicals and sub-classes - may be displayed and changed.

Note a list of parameters is to be found on "Modifiable parameters description", copy of which is supplied together with the configured Controller.

“Controller Status Page” display and setting

General information concerning Controller time and date are gathered on this page.

B	U	I	L	D	I	N	G		N	E	T					C	E	N	T	R	A	L		C	O	N	T	R	O	L	L	E	R		
S	U	B	N	E	T		1	0				N	O	D	E		3																		
D	A	T	E		T	U	E		1	3		F	E	B		2	0	0	3						T	I	M	E		1	6	:	4	3	
														P	R	G	M	:		D	G	2	0	0	2				v	.	4	.	0	.	6

- Name of the network on which the Controller is installed
- Controller name
- Controller address on the network
- Current time and date
- Controller software issue

Changing date and time

Once the page “CONTROLLER STATUS PAGE” has been displayed, time and date may be changed

B	U	I	L	D	I	N	G		N	E	T					C	E	N	T	R	A	L		C	O	N	T	R	O	L	L	E	R		
S	U	B	N	E	T		1	0				N	O	D	E		3																		
D	A	T	E		T	U	E		1	3		F	E	B		2	0	0	3						T	I	M	E		1	6	:	4	3	
														P	R	G	M	:		D	G	2	0	0	2				v	.	4	.	0	.	6

Once the page “Controller Status Page”; the blinking cursor goes on current time and namely is positioned on the column “:” between hour and minutes:

- Press ; “Program” LED lights up
- Press either  or  until the cursor gets in front of the data to be changed
- Press either  or  until the desired value is reached
- Repeat this procedure for any datum to change
- Press  to confirm
- Press  to exit “Program”; accordingly the relevant LED will turn off

Note In case day value is not congruous with the month, when pressing



a question mark "?" with the cursor

blinking on it will appear beside the day.

The mistake will have to be corrected. Then press again



to confirm. If the mistake has been duly rectified,

the date will be accepted and the question mark will disappear.

Program takes into account leap years, not summer time.

Follow the procedure below to change parameter set value:

- Press ; "Program" LED will turn on

Note If users have been defined, the "PASSWORD REQUEST PAGE" will be displayed; for setting "USER Nr" and "Password see § "Parameter alteration" on page 6.

If users have not previously been defined, cursor will blink on the first slot on the right of "IOC" label on the first line

- Press either  or  until the cursor reaches the slot in front of the data to change
- Press either  or  until the desired value is attained
- By repeating the above mentioned operations, the other parameter on the same may be changed
- Press  to confirm set data
- Press  to exit "Program", the relating LED will turn off

Note When pressing either  or  in order to change desired IOC value, the semi page associated to the other displayed parameter remains unvaried, unless the changeable parameter is updated. Any such change will not be displayed before exit of "Program" (relating LED turned off).

Access for parameter classes

Controller parameters may also be displayed and changed using a parameter subdivision for classes.

Classes are as follows:

- Alarms
- Inputs
- Calendar
- Changeable parameters
- Optimizer
- Outputs

Parameters are gathered for application outline within each class.

The over mentioned operations will be reiterated for each program to be changed

- Press  to exit program environment; "Program" LED turns off

Note If - by mistake - a time switch-over is set at some later hour than the following one(s), when pressing  by incongruous hour a question mark "?" will appear underneath the blinking cursor.

It is therefore necessary, to correct the mistake and press  to confirm; if the error has been put right, the data will be accepted and the question mark will disappear.

The setting of "##" datum in the "mode" range causes corresponding switch-over time cancellation; this cancellation is allowed from the last foreseen switch-over time.

A cancellation attempt of a switch-over hour different from the last expected one, is signaled by a question mark "?" on the "mode" field.

If no user has been defined, the cursor keeps on the first slot on the right of the number which indicates vacation period.

- Press either  or  until the cursor gets before the data to be changed

- Press either  or  until either the required value or character appears

- The over mentioned operations have to be reiterated for each datum to be changed

- Press  to confirm the set value

The over mentioned operations have to be repeated for each program to be changed

- Press  to exit program environment; "Program" LED turns off

If no user has been previously codified, the cursor will get to the first slot preceding the number identifying the holiday:

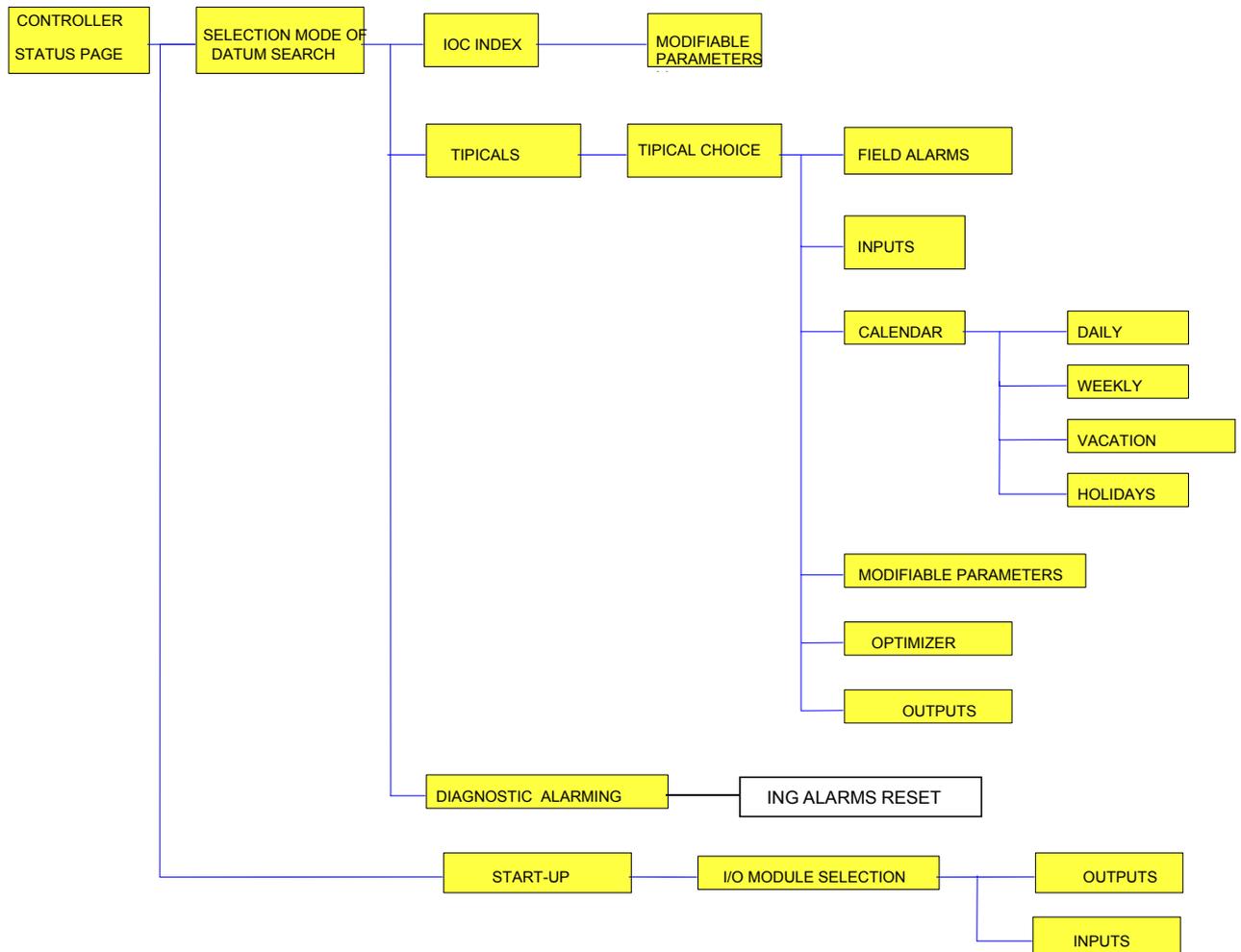
- Press either  or  to bring the cursor to the datum you want to change
- Press either  or  until the required value/character appears
- Press  to confirm

The over mentioned operations will have to be reiterated for each program to be changed

- Press  to exit program environment; "Program" LED turns off.

To return to any previous page, see either "Return to source page" or "Return to main page" both on page 8.

PAGE CONFIGURATION



APPENDIX A

Alarms

The following table shows the list of acronyms relevant to field alarms, subdivided according to types, with the explanation of their meanings:

Acronym	Associated to	Description
ALT	Analogic input	Alarm for value read by sensor higher than the max. threshold foreseen
BAS	Analogic input	Alarm for value read by sensor lower than the max. threshold foreseen
FUO	Input (except transmitters and digital)	Alarm for value read by sensor out of the max. and min values defined for the sensor itself
LET	Inputs	Not active
DIG	Digital inputs	Allarm generated by a state of the digital input different from the expected one during the correct operation
RIL	Output	Not active
ORE	Output	Alarm of overcoming of maintenance estimated hours
ATT	Output	Allarm for overcoming of maintenance estimated start-up hours
ING	Status/Command	Alarm active in the case the input return state does not confirm the realisation of output command

APPENDIX B

Input alarms

The following table shows the list of acronyms relevant to input alarms, subdivided according to types, with the explanation of their meanings:

Acronym	Associated to	Description
ALT	Analogic input	Alarm for value read by sensor higher than the max. threshold foreseen
BAS	Analogic input	Alarm for value read by sensor lower than the max. threshold foreseen
FUO	Input (except transmitters and digital)	Alarm for value read by sensor out of the max. and min values defined for the sensor itself
LET	Input	Not active

APPENDIX C

Output alarms

The following table shows the list of acronyms relevant to output alarms, subdivided according to types, with the explanation of their meanings:

Acronym	Associated to	Description
DIG	Digital input	Alarm generated by a digital input state different from the expected one during correct operation
RIL	Output	Not active
ORE	Output	Alarm of overcoming of estimated hours for maintenance
ATT	Output	Alarm for overcoming of maintenance estimated start-ups

APPENDIX D

Diagnostic alarms

The following table shows the list of acronyms relevant to diagnostic alarms, subdivided according to types, with the explanation of their meanings:

Acronym	Associated to	Description
ONLIN	Controller	Signal of presence on network
FWATC	Controller	Damaged clock alarm
FKEEP	Controller	Alarm for damaged Controller keeping network time
NCMIP	Controller	Communication interface damage alarm
NVFLD	Controller	Control strategy lack alarm
NVFLC	Controller	Application program lack alarm
NVLIO	I/O Module	Communication interface damage alarm
NVFLM	I/O Module	Configuration lack alarm
NVSTM	I/O Module	Alarm for I/O module not present on network