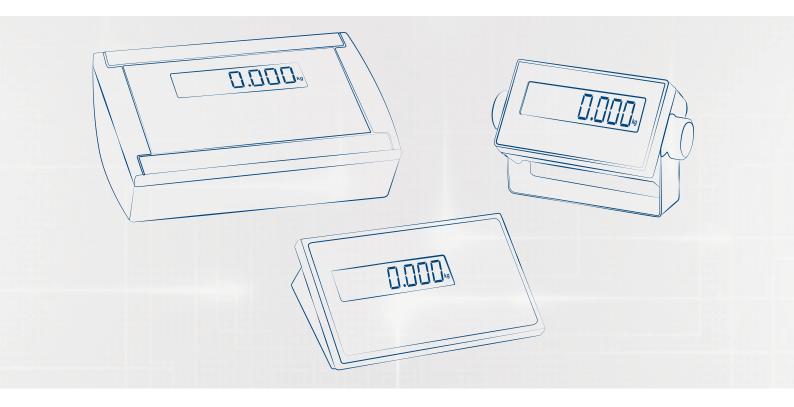
DFW · DFWL

Serial Protocol





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1. Format of the serial commands

This manual describes the available commands on DFW series scale instruments.

The commands are described following the typographical convention:

Description	Des	Description of the command							
Notes	Spe	Special notes, if needed							
Format	С	М	D	Х	Command given as sequence of characters				
Where	×	Des	crint	ion c	of the command parameters, if present				

Answer	Α	N	S	W	Χ	X Command answer as sequence of characters
Where	XX	Des	cript	ion c	of the	answer values, if present

	Description of the example is necessary									
Example	Command	С	M D 1 Example of a specific command							
	Answer	Α	Ν	S	W	W 1 2 Answer to the specific command				

The format of the commands is composed of:

- capital characters: compulsory characters
- · lower case characters: parameters of the command/answer
- characters in square brackets ([x]): optional characters

Commands terminator characters

All the commands and the answers terminate with CR (decimal 13, hexadecimal 0D) LF (decimal 10, hexadecimal 0A) characters. In the example given above the command and the answer will be:

Command CMD1<CR><LF>
Answer ANSW12<CR><LF>

To be more clear the example is given also in decimal and hexadecimal formats:

	ASCII	С	М	D	1	<cr></cr>	<lf></lf>		
Command	Decimal	67	77	68	49	13	10		
	Hexadecimal	43	4D	44	31	0D	0A		
	ASCII	Α	N	S	W	1	2	<cr></cr>	<lf></lf>
Answer	Decimal	65	78	83	87	49	50	13	10
	Hexadecimal	41	4e	53	57	31	32	0D	0A

In the remaining part of the manual to be more concise the terminator characters are omitted.





2. 485 Communication

When the 485 mode is selected all the commands and the answers will have the selected address in front of them. All the commands with a 485 address different from the instrument scale one will be ignored. Example of a command in 485 communication mode with address equal 01.

	ASCII	0	1	С	М	D	1	<cr></cr>	<lf></lf>		
Command	Decimal	48	49	67	77	68	49	13	10		
	Hexadecimal	30	31	43	4D	44	31	0D	0A		
	ASCII	0	1	Α	N	S	W	1	2	<cr></cr>	<lf></lf>
Answer	Decimal	48	49	65	78	83	87	49	50	13	10
	Hexadecimal	30	31	41	4e	53	57	31	32	0D	0A

3. Command errors

Almost every command, if successfully executed, has its own answer. If the received command is not recognized or has a wrong format an error answer is sent back from the scale. The following table lists the error answers:

			Answer				Description
Е	R	R	0	1	<cr></cr>	<lf></lf>	Command format wrong
Е	R	R	0	2	<cr></cr>	<lf></lf>	Command parameters error
Е	R	R	0	3	<cr></cr>	<lf></lf>	Command not allowed in the scale state
E	R	R	0	4	<cr></cr>	<lf></lf>	An inexistent command has been transmitted.
Е	R	R	0	5	<cr></cr>	<lf></lf>	There has been an error in the response of the indicator.
Е	R	R	0	6	<cr></cr>	<lf></lf>	There has been an error in the checksum.

The following errors are specific in the case of weighs memory management (DFWPM10USB)

			Answer				Description
Е	R	R	-	1	<cr></cr>	<lf></lf>	Reading error.
Е	R	R	-	2	<cr></cr>	<lf></lf>	The memory is not present.
E	R	R	-	3	<cr></cr>	<lf></lf>	Writing error.
Е	R	R	-	4	<cr></cr>	<lf></lf>	Invalid index in the memory.
Е	R	R	-	5	<cr></cr>	<lf></lf>	Full memory.
Е	R	R	-	6	<cr></cr>	<lf></lf>	Error in writing the index of the memory.
Е	R	R	-	7	<cr></cr>	<lf></lf>	Error in the stored years (max. 2 consecutive years).
Е	R	R	-	8	<cr></cr>	<lf></lf>	Error in sending data (serial port busy).
Е	R	R	-	9	<cr></cr>	<lf></lf>	Empty memory.
Е	R	R	-	10	<cr></cr>	<lf></lf>	Invalid weight (unstable, less than allowed divisions, out of range or tilt of the scale).

Note: specific errors for the memory have an offset equal to 30 from the absolute value of the error and are transmitted on serial line on 2 hexadecimal digits (ex.: invalid weight error = 30 + abs(-10) = 40 becomes ERR 28 hexadecimal).





4. Available commands

VER - Instrument version

Description	Reading of the instrument model and firmware version						
Format	V E R						
Answer	V E R , r [r] s s , m m m m m m m m						
	r[r] Firmware major release in decimal value						
Where	ss Firmware minor release						
	mm Model name on 8 characters						
	DFW release 1.00 connected						
Example	Command V E R						
	Answer V E R , 1 0 0 , D F W 0 6						

READ - Weight read command

Description	Rea	Reading of the scale weight								
Format	R	R E A D								
Answer	STA	NDA	ARD S	STRII	NG (see the section "Transmission protocols").					

REXT- Weight read command

Description	Reading of the scale weights								
Format	R E X T								
Answer	EXTENDED STRING (see the section "Transmission protocols").								

REXD - Weight read command with date and time

Description	Reading of the scale weights
Format	R E X D
Answer	EXTENDED STRING (see the section "Transmission protocols").





GR10- Weight read command in high resolution

Description	Get the net weight in high resolution
Note	The weight has 1 decimal more than the scale number of decimals

Format	G R 1 0 [x]
Where	x E to enable the compatibility mode of the REXT command with the old version 03.05. If the compatibility is enabled, in the answer, the weights are formatted of on 8 digits instead on 10 digits (as in new version).
	D to disable the compatibility mode disables the compatibility of the REXT command with the old version 03.05 (default).

	x present		0	К																				
		Compatibility mode disabled																						
Answer				S	,	G	Χ	,	w	v	v w	w	w	w	w	w	w	W	,	u	U			
	x omitted		Compatibility mode enabled																					
					,	С	,	w	w	V	v w	w	w	w	w	w	w	u	u					
		Т	L	Tilt	Tilt condition error																			
	SS	0	L	Ove	Over load condition																			
		U	L	Und	Under load condition																			
		S	Т	Wei	Weight stable																			
Where		U	S	Wei	ght	uns	stak	ole																
	С	Sel	lecte	d sc	ale	(alw	ays	1)																
	ww	l .	et weight in high resolution on 10 characters with decimal point and padde ont with blank spaces									ded	d on											
	uu	Un	it of	mea	sui	re ("	g",	"kg"	, " t"	, "I	lb")													

	Enables compat	ibility	/ mo	de															
Example 1	Command	G	R	1	0	Е													
	Answer	0	K																
Weight in high resolution with compatibility mode disabled																			
Example 2	Command	G	R	1	0														
	Answer	S	Т	,	G	Х	,				1	0	0	0	0	,	k	g	
	Weight in high r	esolu	ıtion	with	com	pati	bility	mod	de er	nable	d								
Example 3	Command	G	R	1	0														
	Answer	S	Т	,	1	,					1	0	0	0	0	k	g		

MVOL – Microvolts read command

Description	Reading command of microvolts relative to the weight
Format	M V O L
Answer	STANDARD STRING (see the section "Transmission protocols").





T - Semi automatic tare function

Description	Semi automatic tare function								
Format	T								
Format	<u> </u>								
Answer	No answer	No answer							
Example	Command	Т							
Example	Answer	No answer							

TARE - Semi automatic tare function

Description	Semi automatic	tare	funct	tion		
Format	T A R E					
Answer	ОК					
Example	Command	Т	А	R	Е	
LAdilipie	Answer	0	K			

TMAN - Preset tare function

Description	Preset tare function							
Format	T M A N t t t t t t t							
Where	tt Tare to set with decimal point on up to 8 characters							
Answer	O K The instrument's response does not mean necessarily that the instrument executes the tare.							
	Sets a preset tare equal to 1.5 kg							
Example 1	Command T M A N 1 . 5							
	Answer O K							
	Sets a preset tare equal to 10 kg							
Example 2	Command T M A N 1 0							
	Answer O K							





Z - Zero scale function

Description	Zero scale function									
Format	Z									
Answer	No answer									
Example	Command	Z								
Example	Answer	No answer								

ZERO - Zero scale function

Description	Zero scale function									
Format	Z E R O									
Answer	ОК									
Example	Command	Z	Е	R	0					
Example	Answer	0	K							

C - CLEAR key

Description	Simulates the pressure of the CLEAR key									
Format	С									
Answer	No answer									
Example	Command	С								
Liample	Answer	No answer								



CLEAR - CLEAR key

Description	Simulates the p	ressure o	f the CLEAR key
Format	C L E A	R	
Answer	ОК		
Evample	Command	C L	E A R
Example	Answer	ОК	

ECHO - Echo of the received characters

Description	Echo of the rece	ived	char	acte	rs					
Format	E C H O	[c		c]						
Where	cc Arbitrary	char	actei	rs						
Answer	E C H O	С		С						
Where	cc Same cha	racte	ers o	f the	rece	ived	com	man	d	
F I .	Command	Е	С	Н	0	Α	В	С	D	
Example	Answer	Е	С	Н	0	Α	В	С	D	



ALIM - Reading of power supply and battery levels

Description Reading of power supply and battery levels

Format L 1 M [N]

Where N: character 'N'. If present the command answer will have the millivolt values.

Battery value

Answer	Р	W	:	Х	 Х	В	Т	:	У	 У	L

Decimal value x...x

Decimal value

у...у ALIM ALIMN Description Values Description Range 0: power supply Where Power supply disconnected Power supply volta->= 0 1: power supply connection ge in millivolt connected 0~9

0: discharged

9: charged

Battery voltage in

millivolt

>= 0

Example 1	Command	Α	L	I	М												
Example 1	Answer	Р	W	:		1		В	Т	:	6						
Francis 2	Command	Α	L	I	М	Ν											
Example 2	Answer	Р	W	:		1	2	9	2	0	В	T	:	6	5	0	1

RAZF - ADC value

Description Get the ADC value of the selected instrument channel

Instrument response in "IND.CH." mode: STANDARD STRING (see the section "Transmission protocols"). Answer Instrument response in "DEP.CH." mode: see the response of the RAZM - ADC value command.





RAZM - ADC value

Description	Get	the.	ADC	value	of all	chani	nels														
Format	R	Α	Z	М																	
	_																				
Answer	Inde	epen	dent	chanı	nels w	orkir	ng mo	ode							,						
Allswei	S	S	,	R	Z	,	d	d	d	d	d	d	d	d	d	d	,	V	V		
	Dep	end	ent c	hanne	ls wo	rking	mod	le													
	R	Z	,	V ¹	V ¹	V ¹	V ¹	V ¹	V ¹	V ¹	V ¹	V ¹	V ¹	,	V ²						
	V ²	V ²	V ²	,	V ³	V^3	V ³	V ³	V ³	V ³	V ³	V ³	V ³	V ³	,	V ⁴					
	V^4	V ⁴	V ⁴	V ⁴	,	V	٧														
	SS		Т	L	Tilt	ondi	tion (error				_									
Where			0	L	Ove	r loac	d con	ditior	1												
			U	L	Und	er loa	ad co	nditio	on												
			S	Т	Wei	ght st	able														
			U	S	Wei	ght ui	nstab	ole													
	dc	b	AD	C valu	e on	10 ch	aract	ers p	adde	d on	front	with	blanl	k spa	ces						
	V _i	V _i	AD	C valu	e of t	he i-t	h cha	annel	in de	pend	lent c	hann	els w	orkin	ng mo	de					
	ADC	volt	age	value	equal	to 45	0000) in in	depe	nder	it cha	nnels	wor	king r	mode	<u> </u>					
Example 1	Con	nmai	nd	R	А	Z	М														
	Ans	wer		S	Т	,	R	Z	,					4 !	5 (0 0	0	0	,	V	V
	Rea	ding	of th	ne 2 cc	nfigu	red c	hann	els A	DC va	lues	in de	pend	ent c	hann	els w	orkin	g mo	de, 1	st cha	innel	

1

0

ADC value = 15000, 2nd channel ADC value = 20000

0 0

v v

2 0

M V O L

Command

Answer

Example 2





STPT - Setpoint setting

Description	Setpoint setting
Note	The transmitted values are valid until the indicator is turned off. To permanently save these on the instrument one should use the saving command (CMDSAVE). If one wants to save various set points one should set all of them and at the end transmit the saving command.

Format	S	Т	Р	Т	n	t	Х	Х	Х	Х	Х	Х	t	у	У	У	У	У	у	
		n					_							tpoir	nt fo	rmat	(0÷3	3)		
		+		C	0 to set the setpoint 1, 3 to set setpoint 4 O The following value is the on setpoint one The following value is the off setpoint one															
Where		ι		F		The following value is the off setpoint one														
Wileic		yy		Xx Setpoint weight values in decimal format with no decimals on up to 6 digits. If the scale has 3 decimals and the setpoint value is to be set equal 1.000 kg set xxxx (or													0			
	NOTE: if the setpoint hysteresis is disabled the off value is ignored but must be less than the on value.																			

Answer	0	K	

	Sets the on value calibrated with 3				etpoi	int e	qual	to 2.	000 k	kg ar	nd th	e off	valu	e eqı	ual to	1.9	00 kg in a scale
Example	Command	S	Т	Р	Т	1	0	2	0	0	0	F	1	9	0	0	
	Answer	0	K														

TATO - Command for setting the activation, target and tolerance

Description	Command for setting the activation, target and tolerance
Note	Only by the tolerance Check mode. The transmitted values are valid until the indicator is turned off. To permanently save these on the instrument one should use the saving command (CMDSAVE). If the "KKKKKK" tolerance is omitted, the "ZZZZZZZ" tolerance is considered as both the lower one as well as the upper one.

Former	Т	Α	Т	0	,	Х	Х	Х	Х	Х	Х	,	Υ	Υ	Υ	Υ	Υ	Υ	,	
Format	Z	Z	Z	Z	Z	Z	,	K	K	K	K	K	K							
	XXXXXX is the activation threshold without decimal point																			
Whore	Y	YYYY	Υ	is the target weight without decimal point																
Where	Z	ZZZZ	Z	is the lower tolerance without the decimal point																
	K	KKK	K	is tl	ne up	per	tole	ranc	e wit	hou	t the	deci	mal	poin	t					

Answer

	Sett	Setting the activation equal to 0.020 kg, target equal to 2.000 and tolerances equal to 0.100																		
Example	Т	Α	Т	0	,		0		0	2	0	,		2		0	0	0	,	
		0		1	0	0	,		0		1	0	0							





TLCK - Tare function status

Description	Tare function status									
_	T L C V									
Format	T L C K									
Answer	T I C V o									
Answer	T L C K e									
Where	e E Tare locked									
	D Tare unlocked									
	Tare disable									
Example	Command T L C K									
	Answer T L C K D									

TLCKe - Tare function programming

Description	Tare function programming										
Note	The transmitted values are valid until the indicator is turned off. To permanently save these on the instrument one should use the saving command (CMDSAVE).										
Format	T L C K e										
Where	e E To lock the tare D To unlock the tare										
Answer	O K										
	Tare locked										
Example	Command T L C K D										
	Answer O K										

CMDSAVE - Data saving command

Description	Data saving command								
Format	C M D S	Α	V	Е					
Answer	ОК								
	Data saving com	man	d						
Example	Command	С	М	D	S	Α	V	Е	
	Answer	0	K						





NTGS – NET / GROSS Switch

Description	Switches the main weight display value from gross to net and vice versa										
Note	The command is	The command is executed only if one is in the "Net / Gross switch" functioning mode, F. NodE >> FuncE = nEGS.									
Format	N T G S	N T G S									
Answer	ОК										
Evample	Command	N T	GS								
Example	Answer										

PRNT - Simple print function

Description	Simple print function execution								
Format	P R N T								
Answer	ОК								
Example	Command	P R N T							
	Answer	O K							

DISP - Displays of a message on the display

Description	Displays of a message on the display								
Note	The message is displayed for the interval time set with the DINT command In the case in which the display shown in the command is of the numeric type (for example the standard display 00), and if in the transmitted message there are two consecutive points the message is stopped after the first of the two points. When the display is showing a message transmitted serially through the DISP command, the indicator does not display those messages usually shown in the scale status (ZERO, TARE, HOLD,). With approved instrument one needs to wait for the end of the current visualisation before being able to view the next one.								
Format Where	D I S P 0 0 c c cc Message to display								
Answer	O K								
	Displays the message "- OK -" on the display								
Example	Command D I S P 0 0 - O K -								
	Answer O K								





DINT - Interval of the message of the DISP command

Description	Sets the interval of the message displayed with the DISP command									
Note	Value 0 sets an infinite interval With approved instrument the minimum settable time is 1 millisecond (0001HEX), and maximum settable time is 5 seconds (5000 milliseconds, 1388 HEX).									
Format	D I N T t t t									
Where	tttt Message interval time in milliseconds express in hexadecimal format									
Answer	ОК									
	Sets a message interval time of 1 second (1000 ms, 03E8 hex)									
Example	Command D I N T 0 3 E 8									
	Answer O K									

PCOK - PC confirmation command

Description	PC confirmation command: the indicator shows on the display the "-PCOK-" message for about 2 seconds.									
Format	P C O K									
Answer	ОК									
Example	Command	Р	R	0	К					
LAdilipie	Answer	0	K							

SPMU - Average piece weight setting

Description	Sets the average piece weight in the set AVG unit										
Note	Only for the counting operating mode The APW are not accepted in the SPMU.12 <crlf> format; these must be in the SPMU0.12<crlf> format. The APW are not accepted equal to zero.</crlf></crlf>										
Format	S P M U x x										
Where	xx Average piece weight value with decimal point on up to 8 characters										
Answer	O K										
	Sets an average piece value equal to 10.5										
Example	Command S P M U 1 0 . 5										
	Answer O K										





STAT - Instrument working state

Description	Reading of the in:	Reading of the instrument working state										
Format	S T A T											
		•										
Answer	S T A T	Х	Х									
Where	xx State inde	xx State index in decimal format (see TABLE)										
	Instrument in th	Instrument in the scale state										
Example	Command	S	Т	Α	Т							
	Answer	S	Т	Α	Т	0	1					

Index	State
00	normal scale status
01	normal scale status in input
02	instrument in technical set-up
03	instrument in boot phase
04	instrument in rx/tx set-up phase
05	instrument in test phase of the serial ports
06	instrument in print test



KEYP - Simulation of a key/button pressure

Description	Simulation of a key/button pressure
Note	In case the simulated key has two linked functions (key briefly pressed or at length, like the TARE key), if the KEYP command is followed by the release command of the (KEYR) key within a maximum time of 1,5 seconds, the simple function will be executed (key briefly pressed); otherwise the second function will be made (key pressed at length).
Format	K E Y P x x
Where	xx Key code in hexadecimal format (see Table)
Answer	O K
	Simulation of the pressure of the ZERO key
Example	Command K E Y P 0 4
	Answer O K

Key code	Кеу
00	00: MODE key;
01	01: F key;
02	02: ENTER key;
03	03: TARE key;
04	04: scale ZERO key;
05	05: numeric 0 key;
06	06: numeric 1 key;
07	07: numeric 2 key;
08	08: numeric 3 key;
09	09: numeric 4 key;
0A	0A: numeric 5 key;
0B	0B: numeric 6 key;
0C	0C: numeric 7 key;
0D	0D: numeric 8 key;
0E	0E: numeric 9 key;
0F	0F: INFO key;
10	10: C key.





KEYR - Simulation of the release of the key

Description	Simulation of the	relea	ase o	f the l	ey
Format	K E Y R				
Answer	O K				
Example	Command Answer	K	E K	Υ	R

KEYE - Keyboard status

Description	Keyboard status						
Format	K E Y E						
Answer	K E Y E	е					
Where	e E the keybo D the keybo						
	Keyboard disab	le					
Example	Command	K	Е	Υ	Е		
	Answer	K	Е	Υ	Е	D	

KEYEe - Keyboard enable

Description	Keyboard enable						
Note							ne indicator is turned off. To permanently save these on the command (CMDSAVE).
Format	K E Y E	e					
Where	e E to enable th D to disable t						
Answer	ОК						
	Keyboard disable	<u> </u>					
Example	Command	K	Е	Υ	Е	D	
	Answer	0	K				





RALL - Reading of the scale data

Description	Sim	nulati	on o	f the	relea	se of	the	key																
Format	R	Α	L	L																				
	S	S	,	С	,	n	n	n	n	n	n	n	u	u	,	g	g	g	g	g	g	g	u	u
Answer	,	р	р	t	t	t	t	t	t	t	u	u	,	t _n	u _n	u _n	,	S _s						
Allswei	S _s	S _s	,	C _k	C _k	C _k	,	k	k	k	,	n	n	n	,	r	r	r	r	r	-	d	d	d
	d	d	d																					
	SS			Т	L	Tilt	cond	ditior	n err	or														
				0	L	Ove	er loa	ad co	ndit	ion														
				U	L			oad o		itior	1													
				S	Т			stabl																
	L			U	S		_	unst																
	С			Number of scale (always 1) Net weight on 7 characters Unit of management (I of Management																				
	n	n																						
	uu																							
	g	g		_							411 41													
	uu			1	t of r								"DT"					-						
	pp			1							atic	tare,	"P1"	with	n pre	set t	are							
Where	tt			-	e val						"lh"													
	uu	+		+	t of r							narac	torc											-
	t _n			-								g", "			lh"						-			
	u _t u S _s S _s			+								g, its pa				rnes	on :	front	-		-			
	SSS	S		1) wei			iiai v	aiac	011.	o aig	its pe	adde	.a vvi	(11 20	.1003	, 011	11 0110						
				1	nun				put															
				-	set-				do	ima	باديدا	ie or	2 4	igite	nade	4047	with	70r0	05.0	n fro	nt (*	.)		
	c _k c _k			_								n 3 d									111 (")		
	nnı			+								alue									front			
	rr			+								ıdde			<u> </u>				., 063	0111	- 0110	-		\dashv
	F			-							<u> </u>	ith z					· OIIL				-			\dashv
				1 , ,,,,			- 0.1	3 418	, P															

	Las	t tot	aliza	tion	net i	s 3.5	00 k	g																
	Cor	nma	and				R	Α	L	L														
	Ans	Answer																						
Example	S	Т	,	1	,			3		5	0	0	k	g	,			5		0	0	0	k	g
	,	Р	Т			1		5	0	0	k	g	,			3		5	0	0	k	g	,	
		1	,	0	1	5	,	0	5	5	,	0	0	3	,	0	0	0	0	0	-	0	0	0
	0	0	2																					





PID - Stores weigh data in the alibi memory

Description	Sto	res v	veigh	data	in th	ne ali	bi me	emor	y an	d get	alibi	ID va	alue											
Format	P	I	D																					
	_	1 .	Ι_	1		I			ı						I	ı	1		1		I			
Answer	Р	I	D	S	S	,	С	,	W	W	W	W	W	W	W	W	W	W	u	u	,	р	р	t
74154761	t	t	t	t	t	t	t	t	t	u	u	,	r	r	r	r	r	-	n	n	n	n	n	n
	ss			Т	L	Tilt	cond	ditio	n err	or														
				0	L	Ove	er loa	ad co	ndit	ion														
				U	L	Und	der l	oad (cond	ition														
				S T Weight stable U S Weight unstable																				
			U S Weight unstable																					
	С			U S Weight unstable Scale number (always 1)																				
Mhaus	w	.W		Gro	SS W	eigh/	t on	10 c	hara	cters	pac	lded	with	blaı	nk sp	aces	on	fron	t					
Where	uu			Uni	t of	meas	sure	(" g",	"kg"	, " t",	"lb")									-				
	рр			Tar	e typ	oe (" '	' witl	า ser	ni-aı	ıtom	atic	tare,	"PT"	with	n pre	set t	are							
	tt			Tar	e va	ue																		
	rr			Alib	i rev	vrite	ID v	alue	on 5	digi	ts pa	dde	d wit	h ze	roes	on f	ront							
	n	n		Alib	i ID	value	e on	6 dig	gits p	add	ed w	ith z	eroe	s on	fron	t								
	In d	ase	of er	ror v	vith	no w	eigh	t dat	a sto	red	in ali	bi m	emo	ry ir	plac	ce of	rrrr	r-nnı	nnnr)				
	the	re is		N	0																			
	Dat	ta cto	orod	in al	ihi w	iith a	aro	-C W/	niaht	0011	al to	15 L	α an	d a r	rocc	ot tor	o of	1 kg						

	Dat	ta sto	ored	in al	ibi w	ith a	gros	ss we	eight	equ	al to	15 k	g an	d a p	orese	et tar	e of	1 kg						
	Cor	nma	ind				Р	I	D															
Example	Ans	swer																						
	Р	I	D	S	Т	,	1	,					1	5		0	0	0	k	g	,	Р	Т	
					1		0	0	0	k	g	,	0	0	0	0	0	-	0	0	0	0	0	5





PIDD - Stores weigh data in the alibi memory with date and time

Description	Sto	res w	veigh	data	in th	ne alil	oi me	emor	y, ge	t alib	i ID v	alue	, date	e and	ltime	9								
Format	Р	I	D	D																				
				1												1				1				
	Р	I	D	S	S	,	С	,	W	W	W	W	W	W	W	W	W	W	u	u	,	р	р	t
Answer	t	t	t	t	t	t	t	t	t	u	u	,	r	r	r	r	r	-	n	n	n	n	n	n
	d	d	/	m	m	/	У	У	b	b	h	h	:	m	m	:	S	S						
	SS			Т	L	Tilt	cond	ditio	n err	or														
				0	L	Ove	er loa	ad co	ndit	ion														
				U	L				cond	ition														
				S	Т		ght s																	
				U S Weight unstable Scale number (always 1)																				
	С																							
	W	W									•		with	blar	nk sp	aces	on	front	t	-				
	uu					meas													-	-				
Mhowo	pp					e (" '	with	n ser	ni-au	itom	atic	tare,	"PT"	with	n pre	set t	are							
Where	tt			1 6.1	e val					1														
	rr			_		vrite											ront							
	nı					value the "				auu	ea w	ILM Z	eroe	SON	Iron					-				
	dy	У				char			_	-ima	Lacc	ii ch	aract	or										
	hs			<u> </u>		the "						II CI I	aracı	Lei					-	-				
	_		of er	ror v								hi m	emo	rv ir	n plac	re of	rrrr	r-nnr	nnnr	 1				
	ŀ	re is		N	0]	0.,		500			~		, "	. p.u.					•				
	_			n wh		he d	ate/t	ime	is no	t de	tecte	d or	set	the	weig	ht is	tran	smit	ted h	out n	ot th	ne da	te ar	nd
				ATE 7						c ac			JC (,				ciaii	J	cca i	JGC 11	J. 11	.c uu	cc ui	

	Dat	ta sto	ored	in al	ibi w	ith a	gro	SS W	eight	equ	al to	15 k	g an	d a p	orese	et tar	e of	1 kg						
	Cor	nma	and				Р	I	D	D														
Example	Ans	swer																						
LAdilipie	Р	I	D	S	Т	,	1	,					1	5		0	0	0	k	g	,	Р	Т	
					1		0	0	0	k	g	,	0	0	0	0	0	-	0	0	0	0	0	5
	2	1	/	0	5	/	1	4	/			0	9	:	4	3	:	1	7					





ALRD - Alibi memory reading

Description	Alib	i me	mor	y rea	ding																			
Format	Α	L	R	D	W	W	w	W	W	-	n	n	n	n	n	n								
Whore	ww	wwv	V	Rew	rite i	d (d	ecim	al va	lue d	on 5	digit	s pa	dded	on f	fron	t with	zer	oes)						
Where	nnr	nnnn	l	Alib	i id n	umb	er (c	decin	nal v	alue	on 6	digi	ts pa	dde	d or	fror	ıt wit	h ze	roes)				
	S	,	w	W	W	w	W	W	W	W	w	w	u	u	,	р	р	t	t	t	t	t	t	t
	t	t	t	u	u																			
	S					Sca	le nu	umb	er (a	way	s 1)													
Answer	s Scale number (always 1) wwwwwwwww Gross weight (decimal value with decimal point on 10 characters padded on frowith blanks) uu Unit of measure ("g", "kg", "t", "lb")															ont								
	uu					Un	it of ı	mea	sure	(" g"	"kg"	, " t"	"lb")										
	рр					Tar tar		oe (2	blar	ık sp	aces	with	no	tare	or s	emi-a	utor	natio	c tare	e, "Pī	Γ" wi1	th pr	eset	
	tttt	ttttt	t				e val h bla			nal v	alue	with	dec	imal	poi	nt on	10 c	hara	acter	s pa	dded	l on 1	front	
	Cor	mma	nd			Α	L	R	D	0	0	0	0	0	-	0	0	0	0	0	1			
Evample	Ans	wer																						
Example	1	,						2		0	0	0	k	g	,	Р	Т						1	
	0	0	0	k	g																			

ALDL - Clearing of the alibi memory

Description	Clearing of the alibi memory				
Note	Not allowed in legal for trade instruments and if the scale is not in the weighing state				
Format	A L D L				
Answer	A L D L O K				
Example	Command A L D L				
	Answer A L D L O K				

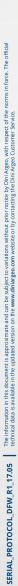




NOTES









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