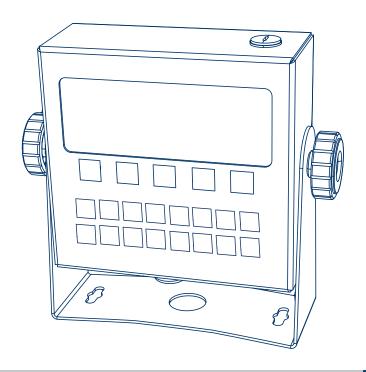




# **SERIAL PROTOCOL**

**ENGLISH** 





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# 1. Serial Command Format

This manual describes the available commands on DFWX series scale instruments. The commands are described following the typographical convention:

Description	Des	cript	ion	of the	e con	mand										
Notes	Spe	cial ı	notes	s, if n	eede	d										
Format	С	М														
Where	х	Des	cript	ion o	of the	command parameters, if present										
Answer	А	N	S	W	Х	X Command answer as sequence of characters										
Where	xx	Description of the answer values, if present														

	Description of t	the ex	kamp	le is	nece	ssar	y	
Example	Command	С	М	D	1	Exa	mple	e of a specific command
	Answer	Α	N	S	W	1	2	Answer to the specific command

The format of commands consists:

- · 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

NOTE: The terminator characters are omitted in the remaining examples.





# 2. 485 Communication

When 485 mode is selected, all commands and the answers will have the selected address preceding them. All commands with a 485 address different from the instrument's will be ignored.

Example of a command in 485 communication mode with address equal 01 follows.

	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
E	R	R	0	3	<cr></cr>	<lf></lf>	Command not allowed in the scale state
Е	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.



# 4. Available Commands

### ALDL - Clears 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

Command L D **Example** Answer Α L D L Ο Κ Ε R 0 3 Answer R

### **ALIM - Reads Power Supply and Battery Levels**

Format

A L I M [N]

Where

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

 Answer
 P
 W
 :
 x
 ...
 x
 B
 T
 :
 y
 ...
 y

 x...x
 Decimal value

Decimal value y...y ALIM **ALIMN** Description Values Description Range Where 0: power supply Power supply disconnected Power supply volta->= 0 connection 1: power supply ge in millivolt connected 0~9 Battery voltage in Battery value 0: discharged >= 0 millivolt 9: charged Command Α Μ **Example 1** Ρ Τ 6 W 1 В Answer Command Α L I Μ Ν Example 2 5 Ρ W 1 2 9 2 0 В Т 6 0 1 Answer





# ALRD - Reads Alibi Memory

Format	Α	L	R	D	w	w	W	w	w	-	n	n	n	n	n	n								
Whore	ww	wwv	v	Rew	rite i	d (de	ecim	al va	lue c	n 5	digit	s pac	dded	l on 1	front	with	ı zer	oes)						
Where	nnr	nnnr	1	Alib	id n	umb	er (c	lecin	nal v	alue	on 6	digi	ts pa	adde	d on	fror	nt 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 nı	ımb	er (al	way	s 1)													
Answer	wwwwwwww Gross weight (decimal value with decimal point on 10 characters padded on with blanks)  uu Unit of measure (" g", "kg", " t", "lb")														n fro	nt								
7.11.511.61	uu																							
	рр					Tar tare		e (2	blan	ık sp	aces	with	no '	tare	or se	emi-a	autor	matio	tare	e, "PT	" wit	th pr	eset	
	tttt	ttttt	t				e val n bla			nal v	alue	with	n dec	imal	poii	nt or	10 0	hara	acter	s pa	dded	l on	front	
												1					1							
	Cor	nma	ınd			Α	L	R	D	0	0	0	0	0	-	0	0	0	0	0	1			
Example	Ans	wer																						
LXample	1	,						2		0	0	0	k	g	,	Р	Т						1	
	0	0	0	k	g																			





# BKLT - Reads Backlight Brightness and Color Limits

This command only provides backlight brightness and color limits, it does not provide the current brightness and color.

						•				
									•	
_										
_										•
										•
•		 	 							
									•	

Answer	В	K	L	Т	,	х	,	Υ	
			0	0 = E	3ack	light	off		
			1	Back	kligh	t brig	htne	SS	level 1 (minimum brightness)
			2	Back	kligh	t brig	htne	SS	level 2
	XX		3	Back	kligh	t brig	htne	SS	level 3
			4	Back	kligh	t brig	htne	SS	level 4
			5	Back	kligh	t brig	htne	SS	level 5 (Maximum brightness)
			1	Red					
Where			2	Gree	en				
			3	Yello	w				
	уу		4	Blue	<u> </u>				
			5	Purp	ole				
			6	Orar	nge				
			7	Cyar	า				
Note	This	s cor	nma	nd or	nly w	vorks	if ch	eck	weigh mode is disabled.

	Cor	nma	nd			В	K	L	Т											
Example	Ans	wer																		
	В	K	L	Υ	,	0	0	-	0	5	,	0	0	-	0	7				





# BKLT - Sets Backlight Brightness and Color

Format	В	K	L	Т	, >	X	,	у	у	,	s	
			0	0 =	Backlig	ht o	f					
			1	Bac	:klight l	righ	tness	leve	l 1 (m	ninin	num	brightness)
			2	Bac	:klight l	righ	tness	leve	12			
	XX		3	Bac	:klight l	righ	tness	leve	l 3			
			4	Bac	:klight l	righ	tness	leve	14			
			5	Bac	klight l	righ	tness	leve	l 5 (N	1axir	num	brightness)
			1	1 =	Red,							
Where			2	2 =	Green							
			3	3 =	Yellow							
	уу		4	4 =	Blue							
			5	5 =1	Purple							
			6	6 =	Orang	9						
			7	7 =	Cyan							
	s		Use	e valu	ue 1 to	store	in s	etup	mem	ory.		
Note				nd o		ks if	chec	k wei	gh m	ode	is di	sabled. If digital outputs have a different color set it

	Cor	nma	nd	В	K	L	Т	,	0	1	,	0	7	,	S	
Example	Ans	wer														
	0	K														





# BRIDGE - Reads Ports that can be Bridged

Format	В	R	I	D	G	Е													
					,														
Answer	В	R	I	D	G	E	:	х											
		1	со	M2															
		2	со	M1															
		3	US	В															
	×	4	со	МЗ															
		5	со	M4															
		6	Eth	erne	et/BL	.E/Ra	dio												
						1													
	Coi	mma	and			В	R	ı	D	G	E								

	Cor	nma	nd			В	R	ı	D	G	Е	
Example	Ans	wer										
	В	R	ı	D	G	Е	:	6				

# BRIDGES - Bridges the Current Port and the Selected Port Together

This command typically used to bridge Bluetooth, Wireless, or Ethernet ports with the active port.

Format	В	R	I	D	G	Е	Х	
Answer	В	R	ı	D	G	E	:	x
		1	СО	M2				
		2	со	M1				
		3	US	В				
	×	4	СО	М3				
		5	со	M4				
		6	Eth	erne	t/BL	E/Ra	adio	

	Con	nmai	nd	В	R	-	D	G	Е	Χ	
Example	Ans	wer									
	0	K									





# BTLE - Sets Bluetooth LE Name

Format	В	Т	L	Е	,	Х	Х	Х	Х	Х	
Where	xxx	xx		Des	ired	Blue	etoot	th LE	dev	ice n	name.
NOTE"	A m	naxir	num	of 3	1 cha	aract	ters	may	be u	sed	for the Bluetooth LE name.

Answer	0	К	

# C - Simulates Press and Release of the C Key

Format	С
Answer	No answer

Evample	Command	С
Example	Answer	No answer

# CHKSP - Reads Check Weigh Sampling Status

Format	C	Н	K	S	Р
				1	1

Answer	С	Н	K	S	Р	:	х
Where		0	Idle	غ			
		1	Sar	nplir	ng		
	Х	2	Sar	nple	d su	cces	sfully
		3	Sar	nple	d fai	led	

Evample	Command	С	Н	K	S	Р			
Example	Answer	С	Н	K	S	Р	:	3	

# CHKSP,1 - Start Check Weigh Sampling Procedure

		—					
Format	СН	ı	Κ	S	Р	,	1

Answer O K
------------





### **CLEAR -Simulates Press and Release of the CLEAR Key Format** C L Ε Α R **Answer** Ο Κ C Ε Α Command L R **Example** 0 Answer Κ **CMDSAVE - Save Data on Instrument Format** C S ٧ Ε M D Α **Answer** 0 Κ C D S Α ٧ Ε Command M **Example** 0 Κ Answer **CNTSP - Retrieves Counting Sampling Status Format** C Т S Ν Ρ **Answer** C Ν Т S Р Х Idle Sampling Where Χ 2 Sampled successfully 3 Sampled failed Command C Τ S Ρ Ν **Example** Ν Τ S P : 3 Answer

### **CNTSP,X - Sets Counting Samples with Defined Quantity**

Format	С	N T	S	Р	,	Х	
Where	Х	The req	uire	d qua	antit	y of <sub> </sub>	pieces

Example	Command	С	N	Т	S	Р	,	1	5	
Example	Answer	0	K							





# DATETIME - Reads Instrument's Date and Time

Format	D	Α	Т	Е	Т	ı	М	E	
		[	DATE	TIM	E		1	trieves the date and time in the format: y/Month/Year Hour:Minute:Second	

	Cor	nma	nd			D	Α	Т	Е	Т	I	М	Е							
Example	Ans	wer																		
	2	1	/	1	1	/	2	0	2	4		1	4	:	0	5	:	2	5	

# DATETIME - Sets Instrument's Date and Hour Format

Format	D	Α	Т	Е	Т	I	М	Е	,	F	а	/	b	/	С	/	h	
	DA <sup>-</sup>	TETIN	ΛE,F	Cor	nma	nd to	set	time	anc	l dat	e							
				m		m (	mont	th)										
	,	,		d d (day)														
Where	a/b	/C		d d (day) y short year (last 2 year digits), Y full year (4 digits)														
wilere				NO	TE: T	he p	lacer	nent	ofr	n, d	or y	can l	oe pl	acec	l a ar	ту ро	ositic	on in a/b/c, but not repeated.
	l.			12		Set	s as 1	12 h	our c	lock								
	h			24		Set	s as 2	24 h	our c	lock								
	NO	TE: T	he de	fault	the	form	at is	DAT	ETIN	1E,Fc	l/m/y	//24						

	Cor	nma	and			D	Α	Т	Е	Т	I	М	Е	,	F	m	/	d	/	Υ	/	1	2	
Example	Ans	wer																						
	1	1	/	2	1	/	2	0	2	4		0	9	:	1	0	:	5	6	а	m			





# **DATETIME - Sets Instrument's Date and Time**

Former	D	Α	Т	Е	Т	I	М	Е	,	F	а	/	b	/	С	/	h	,	w	w	/	х	х
Format	/	z	Z		h	h	:	m	m	:	S	S	q	q							•		
	DAT	TETIN	ИE,F	Sets t	ime	and	date																
				m		m (	mon	th)															
	<u>"</u>			d		d (c	lay)																
	a/b	/c		у		y sł	nort <u>:</u>	year	(last	2 ye	ar di	gits)	, Y fu	ıll ye	ar (4	digi	ts)						
				NOTE	: The	m,	d or	y car	n be	plac	ed a	any	posit	ion i	n a/k	o/c, k	out r	not r	epea	ted.			
				12		Set	s as	12 h	our c	lock													
	h			24		Set	s as i	24 h	our c	lock													
				dd		Set	as d	ay															
Where		, ,		mm		Set	as n	nontl	h														
	ww.	/xx/z	ZZ	уу		Set	as y	ear															
				NOTE	: The	pla	ceme	ent o	f dd,	mm	n or y	y mı	ust n	natch	the	date	e cor	nfigu	ıratic	n in	a/b/	c.	
	hh:	mm:	SS	hh		Set	s clo	ck ho	our														
				mm		Set	s clo	ck m	inute	9													
				SS		Set	s clo	ck se	cond	d													
				am		Opt	tiona	ıl, on	ly ne	ede	d for	12 k	nour	time	! 								
		qq		pm		Opt	tiona	l, on	ly ne	ede	d for	12 ł	nour	time	<u> </u>					_			

	Dat	te an	ıd tin	ne se	et as	June	25 2	2024	at 1	0:05	am.	Forn	nat s	et as	mo	nth,	day,	year	, 12	hour	forr	nat		
	Cor	nma	ınd																					
Evenuelo 4	D	Α	Т	Е	Т	ı	М	Е	,	F	m	/	d	/	у	/	1	2	,	0	6	/	2	5
Example 1	/	2	4		1	0	:	0	5	:	3	3	а	m										
	Ans	swer						•																
	0	К																						
	Dat	te an	ıd tin	ne se	et as	25 Ju	ıne 2	2024	at 1	0:05.	Fori	nat :	set a	s da	y, mo	onth	, yea	r, 24	hou	ır for	mat			
	Cor	nma	ınd																					
Evample 2	D	Α	Т	Е	Т	I	М	Е	,	F	d	/	m	/	у	/	2	4	,	2	5	/	0	6
Example 2	/	2	4		1	0	:	0	5	:	3	3												
	Ans	swer																						
	0	K																						





# DINT - Sets Message Display Interval for DISP Command

Note	Value 0 <b>With ap</b> table tin	prov	ed ir	nstr	ume	<b>nt</b> th	e m					time is 1 millisecond (0001HEX), and maximum set- EX).
Format	D I	N	Т	t	t	t	t					
Where	tttt = Me	essag	ge int	erv	al tin	ne in	mill	iseco	nds	expr	essi	s in hexadecimal format
Answer	ОК											
	Sets a m	nessa	ige ir	nter	val ti	me c	of 1 s	ecor	ıd (10	000 r	ns, (	s, 03E8 hex)
Example	Comma	nd		D	ı	Ν	Т	0	3	Е	8	8
	Answer			0	K							
DISP - Displays a	Messa	ge o	n th	e D	ispl	ay						

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	D	ı	S	Р	0	0	С		С									
Where	сс	c Message to display																
Answer	О К																	
	Displays the message "- OK -" on the display																	
Example	Comi	mar	nd		D	I	S	Р	0	0 -		0	K	-				
	Answ	ver			0	K												





# **ECHO - Echoes Received Characters**

Format	Е	С	Н	0	[c		c]						
Where	сс	:	Any	/ cha	ract	ers							
Answer	E	С	Н	0	С		С						
Where	cc Same of				nara	cters	of t	he re	ceive	ed co	mm	and	
Evample	Command				Ε	С	Н	0	Α	В	С	D	
Example	Ans	wer			Е	С	Н	0	Α	В	С	D	

# ETH,D - Read DHCP Status

Format	Ε	Т	Н	,	D							
Answer	Χ											
Where		0	Dis	isabled DHCP (IP is static)								
	Х	1	Ena	blec	DH	CP (IP is dynamic)						

# ETH,D,<STATUS> - Sets DHCP Status

Note	Sets	s DH	CP status (not saved)
Format	E	Т	H , D , X
Where		0	Disables DHCP (IP is static)
wilere	Х	1	Enables DHCP (IP is dynamic)
Answer	0	К	

# ETH,E - Sets Serial Port to Transparent Mode

	Format	E	Т	Н	,	Е	
Answer O K			1				





# ETH,F - Restores Factor Settings

NOTE	After the command is executed, the module reboots.
Format	E T H , F
Answer	ОК

# ETH,L - Retrieves LAN IP Address and Subnet Mask

Format	Е	Т	Н	,	L																		
Example	1	9	2		1	6	8		1	6		2	5	4	/	2	5	5	2	5	5		2
Example	5	5		0																			
Where	The	The first group of values are the IP address while the second group after the slash is the subnet mask.											k.										
Note	The	The answer varies depending on the configured IP addresses.																					

### ETH,L,<IP> - Sets LAN IP Address and Subnet Mask 255.255.255.0

NOTE	After the command is executed, the module saves and reboots.										
Format	E T H , L < I P >										
Where	<ip> The desired IP address.</ip>										
	Command E T H , L , 1 9 2 . 1 6 8 . 1 6 . 2 1										
Evample	0										
Example	Answer										
	O K										





### ETH,M - Reads Ethernet Mode

F 4		l	1		
Format	I =	I T	L		N /
1 Of Hild C	[	1 I			IVI
				,	

Answer	М	0	D	Е	:	х				
Mhoro		0	LAN	V роі	rt an	d acc	tess point enabled (default setting)			
Where	Х	1	1 WAN port enabled (Ethernet only mode)							

# ETH,M <MODE> - Sets Ethernet Mode

Description	Set	ets Ethernet mode (save and reboots module)										
Format	E	Т	Н	,	М	,	х					

Format	Ε	Т	Н	,	М	,	Х	
Whore		0	LAN	l poi	rt an	d ac	cess	point enabled (default setting)
Where	Х	1	WA	N pc	rt er	nable	ed (E	thernet only mode)

Answer	О	К	

# ETH,R - Reboots Ethernet Module

Format	E	Т	Н	,	R
Answer	0	К			

### ETH,W - Reads WAN IP Address and Subnet Mask

Format	Е	Т	Н	,	W																			
Angwar	1	9	2		1	6	8		1	6		2	0	7	/	2	5	5		2	5	5		2
Answer	5	5		0																				
Where	The	e firs	t gro	up o	f va	lues	are t	he II	o ado	dress	wh	ile th	e se	cond	grou	up at	fter t	he s	lash	is th	e sub	net	mas	k.
NOTE	The	e ans	wer	varie	es de	epen	ding	on I	P ad	dres	ses.													





# ETH,W,<IP> - Sets LAN IP Address and Subnet Mask 255.255.255.0

Note	This command disables DHCP . After the command is executed, the module saves and reboots.
Format	E T H , W < I P >
Where	<ip> The desired IP address.</ip>
	Command E T H , L , 1 9 2 . 1 6 8 . 1 6 . 2 0
Evample	8
Example	Answer
	ОК

# ETH,V - Reads Ethernet Module's Firmware Version

Format	Е	Т	Н	,	٧																
Answer	V	3		6	0	(	2	0	0	4	0	1	1	0	2	6	0	6	)		





# GR10- Reads Net Weight in High Resolution

Note	Th	e we	eight has 1 decimal more than the scale number of decimals
Format	G	R	1 0 [x]
Where	x	E	E = Enables the compatibility mode of the REXT command.  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	D = Disables the compatibility mode. Disables the compatibility of the REXT command with the version 03.05 (default)

			_																			
	x present		0	K																		
			Со	mpa	tibi	lity	mod	le di	isab	led												
Answer			S	S	,	G	Х	,	w	w	w	w	w	w	w	w	w	w	,	u	u	
	x omitted		Со	mpa	tibi	lity	mod	le ei	nab	ed	•											
			S	S	,	С	,	w	w	w	w	w	w	w	w	w	w	u	u			
		Т	L	Tilt	cor	nditi	on e	erro	r													
		0	L	Ov	erlo	ad o	ono	ditio	n													
	SS	U	L	Un	der	loac	l cor	nditi	on													
		S	Т	We	igh <sup>.</sup>	t sta	ble															
Where		U	S	We	igh <sup>.</sup>	t un	stak	le														
	С	Sel	lecte	ed so	ale	(alv	vays	1)														
	ww		t we						ion	on	10 c	hara	ictei	'S W	ith o	decir	mal	poir	nt a	nd p	add	ed on
	uu	Un	it of	me	asu	re ("	g",	"kg"	, " t"	, "lk	o")											

	Enables compat	ibility	/ mo	de															
Example 1	Command	G	R	1	0	Е													
	Answer	0	K																
	Weight in high r	esolu	ıtion	with	com	pati	bility	mod	de dis	sable	ed								
Example 2	Command	G	R	1	0														
	Answer	S	Т	,	G	Х	,				1	0	0	0	0	,	k	g	





### **KEYE - Reads Keyboard Status**

Format	K	Е	Υ	E
Answer	К	Е	Υ	E x
Where		D	The	e keyboard is disabled
where	Х	E	The	e keyboard is enabled

	Keyboard disabl	e					
Example	Command	K	Е	Υ	Е		
	Answer	K	Е	Υ	Е	D	

# **KEYEe - Enables or Disables the Keyboard**

Note The transmitted values are valid until the indicator is turned off. To permanently save the configuration on the instrument, use the save command (CMDSAVE).

Format	K	Е	Υ	E	е
Offilac		<u> </u>	D:-		- 41-
/hovo		D	Dis	sable	s tł
Vhere	X	Е	Ena	able	25

Answer O K

	Keyboard disabl	ed					
Example	Command	K	Е	Υ	Е	D	
	Answer	0	K				

### **KEYR - Simulates Releasing a Button/Key**

Format K E Y R

Answer O K





Note

When a 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	К	E	Υ	Р	x x
			00		CONV key
			01		F key
			02		ENTER key
			03		TARE key
			04		ZERO key
			05		Numeric 0 key
			06		Numeric 1 key
			07		Numeric 2 key
			08		Numeric 3 key
			09		Numeric 4 key
Where	xx		0A		Numeric 5 key
			0В		Numeric 6 key
			0C		Numeric 7 key
			0D		Numeric 8 key
			0E		Numeric 9 key
			0F		Decimal point key
			10		C key
			11		Target key
			12		REF key
			13		Hi/LO key
			14		M+ key key

Answer	ОК							
	Simulates press	ing a	nd h	oldir	g th	e ZEF	RO ke	ey
Example	Command	K	Е	Υ	Р	0	4	
	Answer	0	K					

### **MVOL - Reads Microvolts Relative to the Weight**

|--|

Answer STANDARD STRING (see page 36).





# NTGS – NET / GROSS Switch

Description	Switches the main weight display value from Net to Gross when a tare is active.
Note	The command is executed if "Net / Gross switch" is enabled (F+ConU ->> nEt .Gro).
Format	N T G S
Answer	О К

# PCOK - PC Confirmation Command

NOTE	The indicator shows the "-PCOK-" message for about 2 seconds.
Format	P C O K
Answer	O   K

# PID - Stores Weigh Data in Alibi Memory with Reads Alibi ID

Format	Р	ı	D																					
A	Р	ı	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
	SS			Т	Г	Tilt	conc	ditior	n err	or														
				0	L	Ove	r loa	nd co	ndit	ion														
				U	L	Unc	ler lo	oad o	ond	ition														
				S T Weight stable U S Weight unstable																				
				U S Weight unstable																				
	С			Scale number (always 1)																				
	w	W		Scale number (always 1) Gross weight on 10 characters padded with blank spaces on front																				
Where	uu			Uni	t of r	neas	ure	(" g",	"kg"	, " t",	"lb")													
	рр			Tar	e typ	e (" "	with	ı ser	ni-au	itom	atic	tare,	"PT"	with	n pre	set t	are							
	tt		,	Tar	e val	ue																		
	rr			Alib	i rev	vrite	ID va	alue	on 5	digi	ts pa	dde	d wit	h ze	roes	on f	ront							
	nı	n		Alib	i ID v	value	on	6 dig	its p	adde	ed w	ith ze	eroe	s on	fron	t								
	In c	ase	of er	ror v	vith r	no w	eight	dat	a stc	red	in ali	bi m	emo	ry in	plac	e of	rrrr	r-nnı	าททท	the	follo	wing		
	disp	olays	5,	N	0																			

	Dat	ta sto	ored	in al	ibi w	ith a	gros	ss we	eight	equ	al to	15 k	g an	d a p	rese	t tar	e of	1 kg						
	Cor	nma	ınd				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 Alibi Memory with Alibi ID, Date and Time

Format	Р	П	D	D																				
	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	ondit	ion														
				U	L	Und	der lo	oad (	cond	ition														
				S	Т	Wei	ight :	stab	le															
				U	S	Wei	ight i	unst	able															
	С			Sca	le nu	ımbe	er (al	way	s 1)															
	w	W				eigh/							with	blar	nk sp	aces	on	front	-					
	uu					meas														-				
	pp	Alibi rewrite ID value on 5 digits padded with zeroes on front																						
Where	tt			Alibi rewrite ID value on 5 digits padded with zeroes on front																				
	rr		Alibi rewrite ID value on 5 digits padded with zeroes on front  Alibi ID value on 6 digits padded with zeroes on front  Date in the "dd/mm/yy"																					
	nı									add	ed w	ith z	eroe	s on	fron	t								
	dy	y 								cima	Lace	ii ch	2526	or										
	hs			<u> </u>		char						II CH	aracı	.er										$\dashv$
	_		-f -u									:			ممامد					+1	falla			
	i			N N	O	no w ]	eign	ı dat	a sic	rea	ın aı	ווו וטו	iemo	ory ir	ріас	.e oi	IIIII	-11111	111111	rtne	10110	WILIS	3	
		olays				he d	ato/t	ima	ic no	t do	tocto	.d or	cot	thou	woig	ht ic	tran	cmit	tod k	out n	ot th	d		
						" is ir				n de	iecie	u oi	set,	uie	weig	111 15	uan	SIIIIL	teu i	Juti	וטנ נו	ie ua	ite ai	lu
	,																							
	Dat	a sto	ored	in al	ibi w	ith a	gros	S W	eight	equ	al to	15 k	g an	d a p	rese	t tar	e of	1 kg						
	Cor	nma	ınd				Р	I	D	D														
Example	Ans	wer							_			1			1		1					1		
=xap.e	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						
PRNT - Executes	Pri	nt F	unc	tion																				



Format

Answer

R N

ОК

Т



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
Anguer	,	р	р	t	t	t	t	t	t	t	u	u	,	t <sub>n</sub>	u <sub>n</sub>	u <sub>n</sub>	,	S <sub>s</sub>						
Answer	S <sub>s</sub>	S <sub>s</sub>	,	C <sub>k</sub>	C <sub>k</sub>	c <sub>k</sub>	,	k	k	k	,	n	n	n	,	r	r	r	r	r	-	d	d	d
	d	d	d																					
	ss			Т	L	Tilt	conc	ditior	n err	or														
				0	L	Ove	r loa	ad co	ndit	ion														
				U	L	Und	der lo	oad o	ond	ition														
				S	Т	Wei	ght	stabl	e															
		_		U	S	Wei	ght ı	unsta	able															
	С			Nur	mbei	of s	cale	(alw	ays ´	)														
	n	n		Net weight on 7 characters  Unit of measure (" g", "kg", " t", "lb")  Gross weight on 7 characters																				
	uu										"lb")													
	g§	g		Gro	SS W	eigh	t on	7 ch	aract	ers														
	uu			Uni	t of r	neas	ure	(" g",	"kg"	, " t",	"lb")													
	рр										atic	tare,	"PT"	with	n pre	set t	are							
Where	tt							hara																
	uu	-								, " t",														
	t <sub>n</sub>	t <sub>n</sub>								nt on														
	u <sub>t</sub> u	t											kg", '											
	S <sub>s</sub> S <sub>s</sub>	S <sub>s</sub>				ate, c ghing		nal v	alue	on 3	digi	ts pa	adde	d wi	th ze	roes	on f	ront						
						•	_	ıe inı	out															
						up n																		
	$c_k c_k$	C <sub>k</sub>		Pre	ssed	keys	s cou	ınter	, ded	imal	valu	ie or	1 3 d	igits	pado	ded v	vith :	zero	es or	n fro	nt (*	)		
	kkk			Pre	ssed	key	code	e, de	cima	l valı	ue oi	n 3 d	igits	pad	ded	with	zero	es o	n fro	nt				
	nnr	1		Nur	mbei	of t	otali	zatio	ns, c	decin	nal v	alue	on 3	digi	ts pa	adde	d wit	h ze	roes	on f	ront			
	rr	-		Alib	i rev	vrite	ID va	alue	on 5	digit	s pa	dde	d wit	h ze	roes	on f	ront							
				Alib	i ID י	value	on	6 dig	its p	adde	ed w	ith z	eroe	s on	fron	t								

	Las	st tot	aliza	tion	net i	s 3.5	00 k	g																
	Со	mma	and				R	Α	L	L														
	An	swer																						
Example	S T , 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																					





# RAZF - Retrieves ADC Value of Specified Instrument Channel

Instrument response in "IND.CH." mode: STANDARD STRING (see page 36).
Instrument response in "DEP.CH." mode: see the response of the RAZM - ADC value command.

NOTE

This function only works with dependent channel mode enabled (Technical Menu ► RdURnc ► ERP.PRr
► E9uRL ► 4E5), otherwise the answer is Enco3.

### **RAZM - Retrieves ADC Value of All Channels**

Format	R	Α	Z	М																	
Answer	Inde	epen	dent	chan	nel op	erati	on m	ode													
Allswei	S	S	,	R	Z	,	d	d	d	d	d	d	d	d	d	d	,	٧	٧		
	Dep	end	ent c	hanne	el ope	ratio	n mo	de													
	R	Z	V <sup>2</sup> , V <sup>3</sup>														V <sup>2</sup>	V <sup>2</sup>			
	V <sup>2</sup>	V <sup>2</sup>	V <sup>2</sup>	,	<b>V</b> <sup>3</sup>	,	V <sup>4</sup>	V <sup>4</sup>	V <sup>4</sup>	$V^4$	$V^4$	V <sup>4</sup>									
	V <sup>4</sup>	V <sup>4</sup>	4 V <sup>4</sup> V <sup>4</sup> , V V																		
	SS		Т	L	Tilt	condi	tion (	error													
Where			0	L	Ove	r load	d con	ditior	1												
			U	L	Unc	ler lo	ad co	nditio	on												
			S	Т	Wei	ght st	table														
			U	S	Wei	ght u	nstab	ole													
	dc	ı	AD	C valu	ie on	10 ch	aract	ers p	adde	d on	front	with	blanl	k spa	ces						
	V <sub>i</sub> '	v <sub>i</sub>	AD	C valu	ie of t	he i-t	h cha	nnel	in de	pend	lent c	hann	els w	orkin	ig mo	de	_				

	ADC voltage valu	ue ec	ıual t	o 45	0000	in in	depe	ende	nt ch	anne	lope	eratio	n m	ode						
Example 1	Command	R	Α	Z	М															
	Answer	S	Т	,	R	Z	,					4	5	0	0	0	0	,	٧	٧
	Reading of the 2 ADC value = 150									epen	dent	char	nnel	oper	ation	mod	de, 1s	st cha	annel	
Example 2	Command	М	٧	0	L															
	Anguar	R	Z	,							1	0	0	0	,					
	Answer		2	0	0	0	,	٧	٧											





READ - Reads So	tale weight
Format	R E A D
Answer	STANDARD STRING (see page 36).
	, 10 /
REXD - Reads So	cale Weight with Date and Time
-	
Format	R E X D
Answer	EXTENDED STRING (see page 36).
REXT- Reads Ex	tended Scale Weight
Format	REXT
Answer	EXTENDED STRING (see page 36).
SPMU - Sets Ave	erage Piece Weight
	This command only functions with Counting mode.
Note	The APW are not accepted in the SPMU.12 <crlf> format; these must be in the SPMU0.12<crlf> format.</crlf></crlf>
11010	The APW are accepted equal to zero.
	The APW are accepted and the display switches the weight value.
Format	S P M U x x
Where	
Wilere	xx Average piece weight value with decimal point on up to 8 characters
Answer	О К
	Sets an average piece value equal to 10.5
Example	Command S P M U 1 0 . 5
	Answer O K





### STAT - Reads the Status of the Instrument

Format	S	Т	Α	Т			
Answer	S	Т	Α	Т	х	Х	
		00	00 =	= noi	mal	scal	e status
Where		01	01 =	= noı	mal	scal	e status in input
where	XX	02	02 =	= ins	trum	ent	in technical set-up
		03	03 =	ins	trum	ent	in boot phase

	Instrument in th	e sca	ale st	ate				
Example	Command	S	Т	Α	Т			
	Answer	S	Т	Α	Т	0	1	

### **STPT - Configures Setpoint**

The transmitted values are valid until the indicator is turned off. To permanently save the configuration on the instrument, use the save command (CMDSAVE).

To save multiple set points, set all of them and then use the save command.

Format	S	Т	Р	Т	n	t	Х	Х	х	х	х	х	t	у	у	у	У	,	у	у						
		n		l			_		•			to th		tpoi	nt fo	rmat	t (0	÷3)								
		+		C	)	On	setp	oint	valu	e																
Where		·		F	=	Off	setp	oint	valu	e																
		xx yy		If th		ale h	as 3	dec							o de ie is							_		xxxx	(or	
	NO	TE: if	the	setp	oint	hyst	eres	is is	disal	oled	the o	off va	lue	is igi	nore	d bu	t m	านรา	t be	les	s t	har	the	on va	alue.	

Answer O K

Sets the on value of the 2nd setpoint equal to 2.000 kg and the off value equal to 1.900 kg in a scale calibrated with 3 decimals **Example** Р Т 0 2 0 0 0 F 1 9 0 0 S Τ 1 Command Ο Κ Answer





# T - Executes Semi Automatic Tare Function

Format	Т	
Answer	No answer	
Example	Command	Т
Example	Answer	No answer

# TARE - Executes Semi Automatic Tare Function

Format	T A R E				
Answer	O K				
Example	Command	Т	Α	R	Е
LXample	Answer	0	К		•



# TATO - Reads Check Weigh Mode Target, Tolerance, and Type Values

		1	1	1
E a was a t				1
Format	T	Δ	l T	$\Box$
			1 '	10

	С	Н	Е	С	K	:	Т	m	,	М	m	,	t	t	t	t	t	t	Ι,	х	х	х	х	х
	х	,	у	у	у	у	у	у	,	Z	Z	Z	Z	Z	Z				-		1	ı		
	Tm					0 = 1 = 2 = 3 =	oFF GroS	5	ype (	SELL	ı∩ >:	> [hE	E[fi >	> E91	PE), v	vher	e Tr	n=						
Answer	Mn					0 = 1 =	Che LoLE AbSo L.PE	r L	1ode	(SEŁ	E in >	>> [h	iEEF :	>> [	. Nodl	E), w	her	e Mr	1=					
	tttt	t				The	che	ck th	resh	old v	witho	out d	lecim	nal p	oint									
	XXX	XXX				The	targ	get w	eigh	t wit	hout	dec	imal	poir	nt									
	ууу	ууу				The	low	er to	lera	nce v	vitho	ut th	ne de	ecim	al po	int								
	zzz	ZZZ				The	upp	er to	olera	nce v	with	out t	he d	ecim	al po	oint								

	Cor	nma	nd			Т	Α	Т	0															
Evample	Ans	wer																						
Example	С	Н	Е	С	К	:	Т	1	,	М	0	,	1	0	0	,	2	0	0	0	,	1	5	0
	,	1	5	0																				





# TATO - Sets Check Weigh Mode Target, Tolerance, and Type Values

NOTE The values are saved and restored on indicator start-up.

Format	Т	Α	Т	0	,	t	t	t	t	t	,	Х	Х	х	х	Х	х	,	у	у	у	у	у	у
	,	Z	z	z	Z	Z	z	,	m	,	n					,			•		,			
Where			tt	ttt			The	che	ck th	resh	old	with	out (	decir	nal p	oint								
			xxx	xxx			The	targ	get w	eigh	t wit	hou	dec	ima	l poi	nt								
			ууу	ууу			The	low	er to	lera	nce v	with	out t	he d	ecim	al po	oint							
		-	ZZZ	ZZZ			The	upp	er to	olera	nce	with	out 1	the c	lecin	nal p	oint							
			r	n			0 = 1 = 2 = 3 =	oFF Gros	55	ype (	SELL	: וח ->	>> [	nECF	>> E	YPE),	whe	ere n	n=					
			1	n			0 = 1 =	Che EoLE 865a E.PE	οL	lode	(SEL	E in	>> [I	HECF	>> [	. Nod	IE), v	vher	e n =					

	Cor	nma	nd																					
Evample	Т	Α	Т	0	,	1	0	0	,	2	0	0	0	,	1	5	0	,	1	5	0	,	1	,
Example	,	0																						
	Ans	swer				О	К																	





# TLCK - Reads Tare function Status

Format	Т	L	С	K												
Answer	Т	L	С	K	х											
Where		D	Tar	e is ι	unloc	ed										
	X	Е	Tar	Tare is unlocked Tare is locked												
	Tar	_ :	. مامر	ادما												

	Tare is unlocked					
Example	Command	Т	L	С	Κ	
	Answer	Т	L	С	K	D

# TLCKe - Programs Tare Function

Note	The transmitted values are valid until the indicator is turned off. To permanently save the values on the
14000	instrument, use the save command (CMDSAVE).

Format	Т	L	С	K	Χ										
Where		D	Unl	ocks the tare											
	X	Е	Loc	ks th	ne tai										

Answer	ОК	Answer		
--------	----	--------	--	--

	Locks tare						
Example	Command	Т	Г	C	K	D	
	Answer	0	K				





# TMAN - Executes Preset Tare Function

Format	Т	М	Α	N	t	t	t	t	t	t	t	t	
Where		tt		Tar	e set	with	n dec	ima	l poi	nt or	up	to 8 (	characters
Answer	0	K	The	inst	rum	ent's	resp	oons	e do	es n	ot m	ean i	necessarily that the instrument executes the tare.

	Sets a preset tar	e eq	ual to	o 1.5	kg			
Example 1	Command	Т	М	Α	Ν	1	5	
	Answer	0	K					

# TOTAL - Reads Totalization Data

	$\neg$				
Гомиссоф					
Format	ГΙ	$\cap$	I T	I 1	l 1
		U	1 I	I A	l L

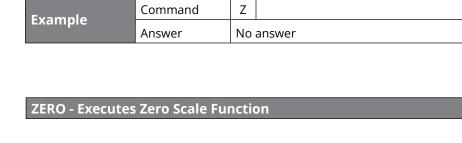
																				1				
	w	:	n	n	n	n	n	n	,	Т	:	t	t	t	t	t	t	t	t	t	t	u		
	u	,	L	:	I	ı	ı	ı	ı	ı	ı	ı	ı	ı	u	u								
	W					W	W Total is not cleared																	
Answer						w Total is cleared																		
	nnı	nnn	n			Number of weighments																		
	tttt	ttttt	t			Total weight																		
	Ш	IIIII				Las	Last totalized weight																	
	uu					unit																		

	Coi	nma	nd			Т	0	Т	Α	L													
Example	Ans	swer																					
	W	:	5	,	Т	:	1	3		9	7	3	k	g	,	L	:	3	9	9	5	k	g





VER - Reads Inst	rum	ent	Мо	del a	and	Fir	mwa	are \	/ers	ion												
Format	V	Е	R																			
Answer	٧	Е	R	,	r	[r]	S	S	,	m	m	m	m	n r	n	m	m	m				
	r[r] Major firmware release in decimal value																					
Where	ss Minor firmware release																					
	mm Model name in (up to 8 characters)																					
	DFV	VX re	eleas	e 1.0	8 cc	nne	cted															
Example	Con	nma	nd		٧	Е	R															
	Ans	wer			٧	Е	R	,	1	0	8	,	D	F	١	N	Х					
Z - Executes Zer	n Sca	ا ماد	Fun	ction	<u> </u>																	
Z - Executes Zer	0 30	aic i	uni	CLIOI	'																	
Format	Z																					



No answer

Format	Z E R O					
Answer	ОК					
Everente	Command	Z	Е	R	0	
Example	Answer	0	K			



Answer



# 5. Communication Strings

### **Short string**

### 01ST,GS, 0.0,kg<CR><LF>

where

O1 Code 485 of the instrument (2 characters), only if communication mode 485 is enabled

ST Scale status (2 characters):

 $\underline{\text{US}}$  - Unstable weight

 $\underline{\mathsf{ST}}$  - Stable weight

NOTE: If parameter ZER.STR is enabled, ZR (Zero status) replaces the ST status

when the weight is in zero range (the  $\rightarrow 0 \leftarrow$  annunciator displays)

OL - Weight overload (out of range)

<u>UL</u> - Weight underload (out of range)

TL - Scale not level (inclinometer active)

ASCII 044 character

**GS** Type of weight data (2 characters)

 $\underline{\mathsf{GS}}$  - Gross

NT - Net

ASCII 044 character

**0.0** Weight (8 characters including the decimal point)

, ASCII 044 character

kg Unit of measurement (2 characters)

<CR><LF> Transmission terminator, characters ASCII 013 and ASCII 010





### **Extended String and Extended String 2**

011, ST, 0.0,PT 20.8, 0, 00.00000,kg,-----<CR><LF>

where

O1 Code 485 of the instrument (2 characters), only if communication mode 485 is enabled

1 ASCII 049 character
, ASCII 044 character

**ST** Scale status (2 characters):

 $\underline{\text{US}}$  - Unstable weight  $\underline{\text{ST}}$  - Stable weight

NOTE: If parameter ZER.STR is enabled, ZR (Zero status) replaces the ST status when

the weight is in zero range (the →0+ annunciator displays)

<u>OL</u> - Weight overload (out of range) <u>UL</u> - Weight underload (out of range)

<u>TL</u> - Scale not level (inclinometer active)

, ASCII 044 character

**0.0** Net weight (10 characters including the decimal point)

ASCII 044 character

PT Indication of pre-set manual tare (2 characters)

**20.8** Tare weight (10 characters including the decimal point)

ASCII 044 character

Number of pieces (10 characters)

, ASCII 044 character

**00.00000** Average piece weight in grams (10 characters including two blank spaces, 2 leading characters,

1 decimal point, and 5 trailing characters)

, ASCII 044 character

kg Unit of measurement (2 characters)

---- Only for Extended String 2. Check mode status indicator of OK, OVER, UNDER

<CR><LF> Transmission terminator, characters ASCII 013 and ASCII 010





# **NOTES**











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Authorized	l service	center	stamp
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