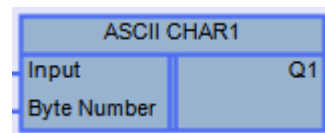


ASCII_Char



Input	Data type	Description	Range
Input	INT	INT Variable	0 to 127
Byte Number	INT	Byte Number in Register	0 to 3
Output	Data type	Description	Range
Q1	INT	Adjusted ASCII number	0 to 77

Function

By using this Macro, a variable INT that stores a CHAR or STRING value can be adjust to be shown in the PR200 display using the dynamic box “Char” available in the sample program “Read Version from TRM202”. The sample program can be download from the akYtec website using this [link](#).

The intention of this macro is to allow the presentation in Display of CHAR or STRING values transmitted via MODBUS RS485.

The bytes stored in the register (2 bytes in INT16 or 4 bytes in INT32 or REAL) can be extract using the byte position and the decimal value will be adjusted to one, that correspond to this table:

Nr	ID	Nr	ID	Nr	ID	Nr	ID
0	*	21	B	42	W	63	l
1	.	22	C	43	X	64	m
2	/	23	D	44	Y	65	n
3	0	24	E	45	Z	66	o
4	1	25	F	46	[	67	p
5	2	26	G	47	\	68	q
6	3	27	H	48	]	69	r
7	4	28	I	49	^	70	s
8	5	29	J	50	_	71	t
9	6	30	K	51	`	72	u
10	7	31	L	52	a	73	v
11	8	32	M	53	b	74	w
12	9	33	N	54	c	75	x
13	:	34	O	55	d	76	y
14	;	35	P	56	e	77	z
15	<	36	Q	57	f	78	*
16	=	37	R	58	g		
17	>	38	S	59	h		
18	?	39	T	60	i		
19	@	40	U	61	j		
20	A	41	V	62	k		

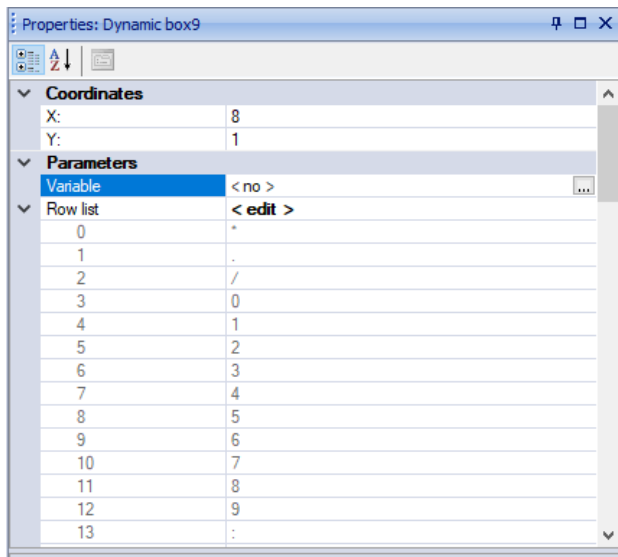
Programming environment akYtec ALP

The register value will be adjust using the following formula:

$$Q1 = \text{INT value} - 45.$$

In this way, the ASCII character “.” with a decimal value of 46, will be transform to 1 and will be show correctly using the dynamic box “CHAR”. If the value is outside of range, a default character “*” will be shown.

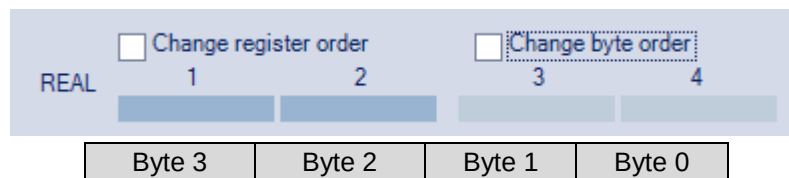
A dynamic box was created to shown the corresponding value in the PR200 display.



To use this dynamic box in a project, please download the sample project and create a new project using this as base or copy the dynamic box to your project. If you want to copy the dynamic box please notice that the box can't be set to any variable, otherwise you will receive a message of error.

Note:

The number of the register order doesn't correspond to the number presented in the PR200 device configuration.



Devices	PR200
Version	1.1
Last modification	26.07.2018