SPECIALTY PRODUCT TECHNOLOGIES

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VEEDER ROOT C346 Series Phase Out

C346 Phase out

C346 series

will be discontinued and replaced by…

Versa Count VC772 series

Current Stock reach: END SEPT 2021

CONTENTS

Why the VC772 series is an equivalent replacement to C346?

		EoL product family	Best match	
		C346 Series	Versa Count VC772	Features comparison
Highlights	Display		2 line display	👍
			Various display types	👍
			Bigger digit size [up to +22%]	👍
	Easy assembly, operation and selection		More flexible (more functions)	👍
			Plug-in and screw pluggable connector	👍
			High frequency [up to 60 kHz]	👍
			up to 3 presets	👍
			Alarm function	👍
			Less buttons	?
			Wide-range power supply	👍
	Price		Cheaper than C346	👍
Challenges	Installation depth	Refer to Form/fit comparison section	Installation depth	?
	Display type		No LED red available	?

▲ Better ▼ Worse ? Check application

Versa Count VC772 series

C346 series and Versa Count VC772 comparison

“FORM” / “FIT” COMPARISON

DISPLAY / VISUAL

Same display types

Reflective LCD

LED

Negative LCD with backlight

Upsides:

* 2 display lines
* Bigger digit size (+22% at LED)
* 4 display types

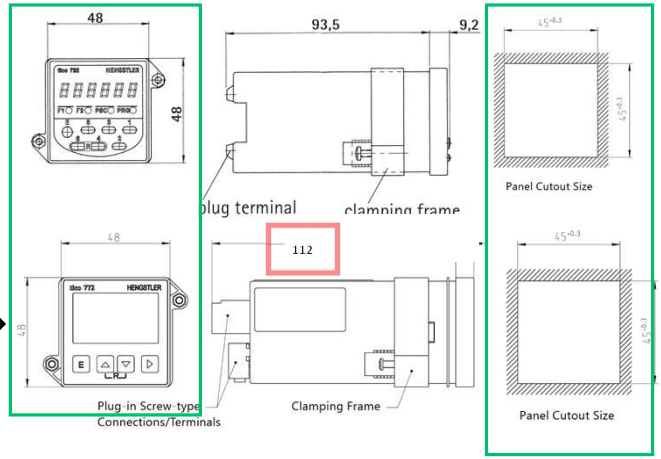
Challenge:

- No LED Options available in VC772

DIMENSIONS

C346 →

VC772 →



Challenge:

- Installation depth
+ 18.5mm

BUTTONS

7 rubber pushbuttons

4 membrane buttons

Lesser number of buttons in VC772 than C346

C346 series and Versa Count VC772 comparison

"FIT"

CONNECTIONS

C346
Series

Versa Count VC772 series

Screw terminals	Plug-in and screw pluggable connector	▲

(See also next slides for installation)

SPECIFICATIONS

- Specs are same or better at VC772 compared to C346 as illustrated in previous slides, refer to below links for C346 & Versa Count Manuals –
- Manual links-
  - C346 - https://www.specialtyproducttechnologies.com/docs/default-source/downloads/veeder-root/manuals/c346_manual.pdf?sfvrsn=2
  - Versa Count - https://www.specialtyproducttechnologies.com/docs/default-source/downloads/veeder-root/manuals/versacount-manual.pdf?sfvrsn=ceacf387_2

C346 series and Versa Count VC772 comparison

		C346	VC772	VC772 v C346 COMPARISON	VC773*	VC774*
“FUNCTION”						
Power Supply	Wider-range supply DC	12-24	12-30	▲	12-30	12-30
	Wide-range supply AC	--	110-240	▲	110-240	110-240
	24VAC	Yes	Yes	=	No	No
	115VAC	Yes	Yes	=	No	No
	230VAC	Yes	Yes	=	No	No
Input	# of Inputs	2	2	=	2	2
	# of reset input	1	1	=	1	1
	Frequency up to kHz	5	60	▲	60	60
	Resistance [kOhm]	5	10	▲	10	10
Output	# of relays	0|1|2	1|2	=	1|2	1|2
	# of transistors	0|1|2	2	=	2	2
Application input/output	# of input or output	0	1 (transistor)	▲	1	1
Presets / Functions	# of presets	up to 2	up to 3	▲	up to 3	up to 3
	Prescaler	0,001 - 9,999	0,0001 - 9,9999	▲	0,0001 - 9,9999	0,0001 - 9,9999

***Additionally:**

→ VC773 with USB interface

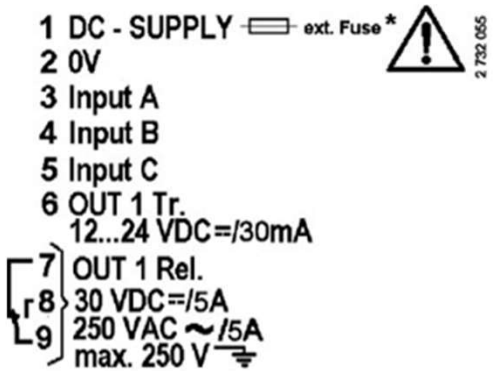
→ VC774 with RS232 interface

… with a “Programming assistant”

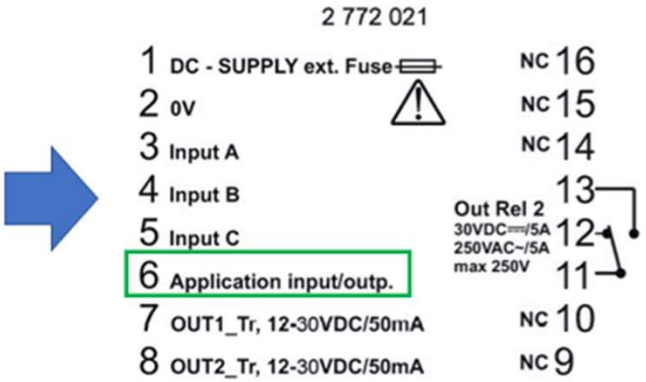
→ Quick Reference guide

WIRING – 1 Relay Version

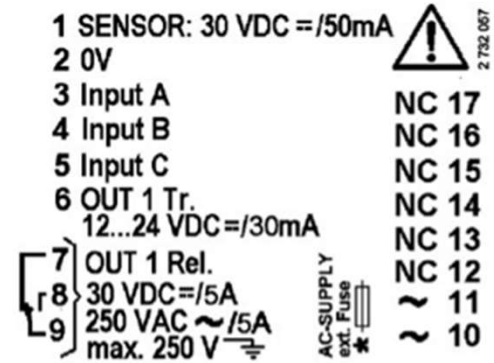
C346-0412/C346-0512 / DC



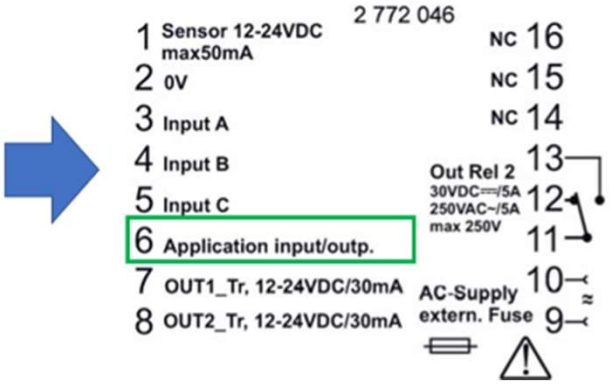
VC772-x01 / DC



C346-041x/C346-051x / AC

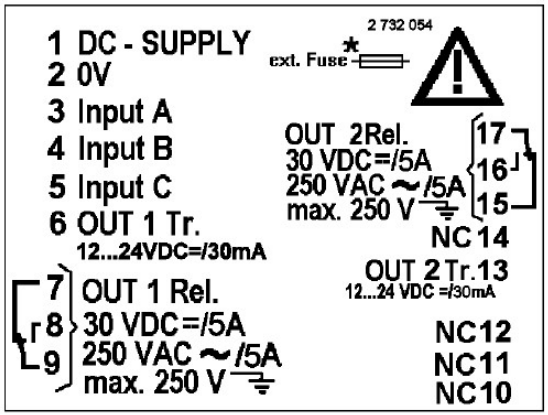


VC772-x41 / AC

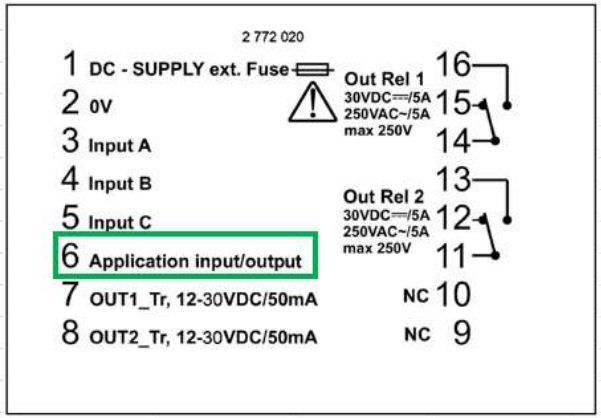


WIRING – 2 Relay Version

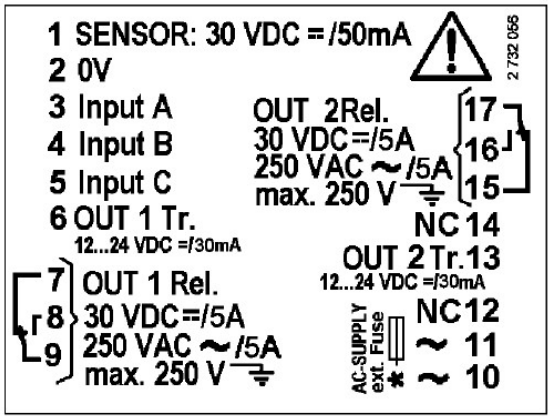
C346-0422/C346-0522 / DC



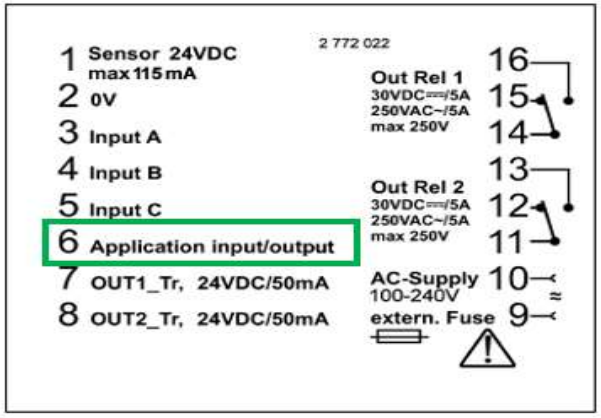
VC772-x02 / DC



C346-042x/C346-052x / AC



VC772-x42 / AC



WIRING COMPARISON

The following applies to a 1-relay version of the C346:
OUT-1 Relay (C346) = OUT-2 Relay (VC772)
OUT-1 transistor (C346) = OUT-2 transistor (VC772)

Wiring terminals comparison- 1 relay version

C346	TERMINALS	VC772
1	DC-Supply	1
2	0V	2
3	Input A	3
4	Input B	4
5	Input C	5
6	OUT-1 Transistor	7
7	OUT-1 Relay	
8		
9		
10	AC-Supply	9
11	AC-Supply	10
	OUT-2 Transistor	8
	OUT-2 Relay	12
		13
		11

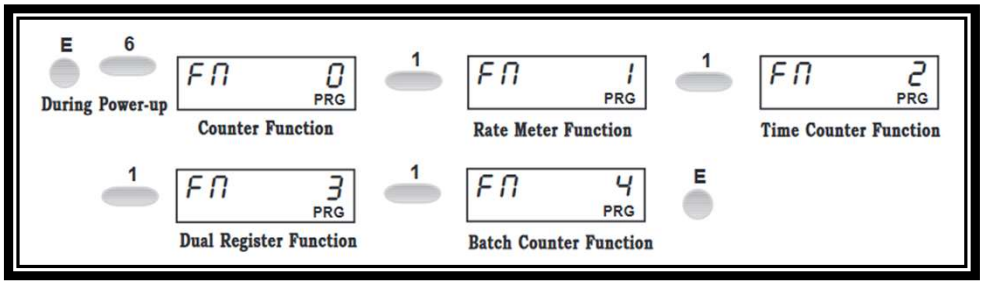
Wiring terminals comparison- 2 relay version

C346	TERMINALS	VC772
1	DC-Supply	1
2	0V	2
3	Input A	3
4	Input B	4
5	Input C	5
6	OUT-1 Transistor	7
7	OUT-1 Relay	15
8		16
9		14
10	AC-Supply	9
11	AC-Supply	10
13	OUT-2 Transistor	8
15	OUT-2 Relay	12
16		13
17		11

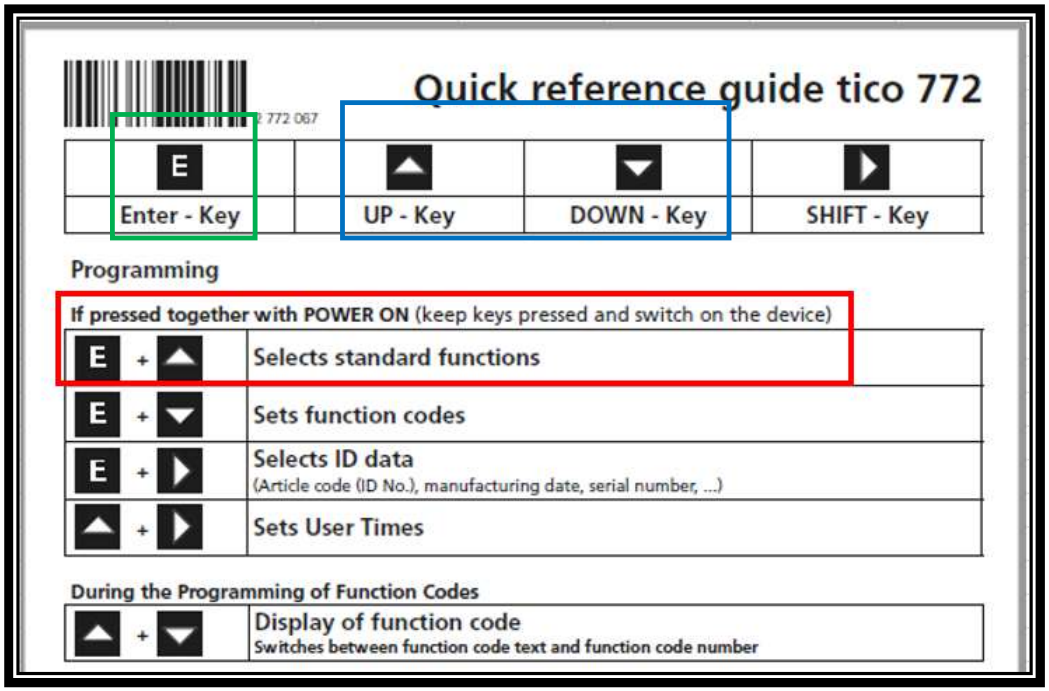
Setup and programming

SETUP MAIN FUNCTIONS

C346 series (Pg-8 of C346 manual)



VersaCount VC77x series (Pg-24 of VC manual)



Setup and programming

SETUP FUNCTION CODES

C346 (Pg-8 to 10 of C346 manual)

2.2 Programming of function codes

Programming mode:

E 5 *press while switching*

Power on

Change parameter:

1 *press*

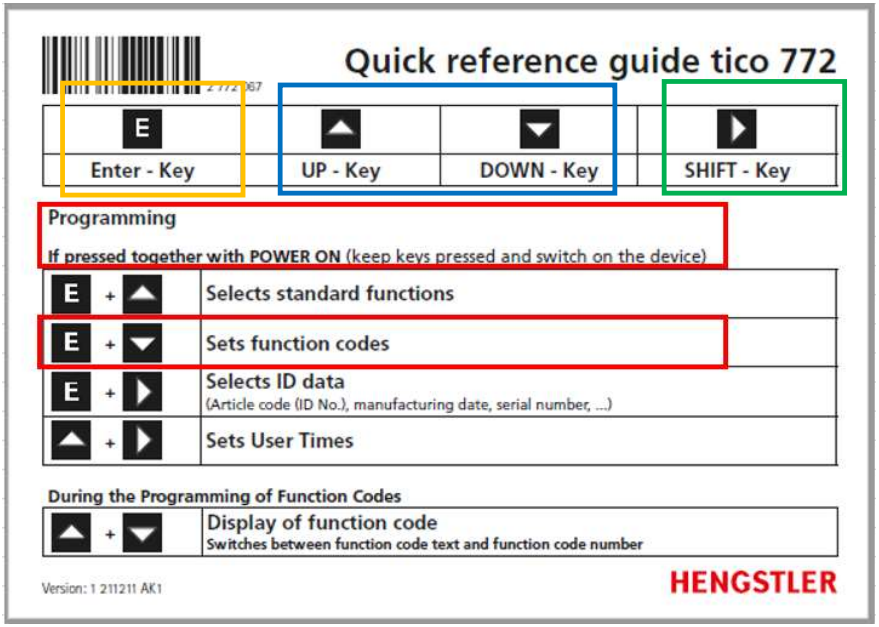
Change to the next function:

E *press*

Return to count mode:

E *press > 5 sec*

VC772 (Pg-25, 42 to 53 of VC manual)



(See also next slides for function codes comparison between C346 & VC772)

Setup and programming

FUNCTION CODES COMPARISON FOR PULSE COUNTER FUNCTION

0 - Pulse Counter		
C346	Functions	VC772
F0	Factory Settings (Defaults)	F0
F1	Mode of Oper. (Pulse/Batch)	F1
F3	Decimal Point	F13
F4	Set/Reset Mode	F5
F6	Output 1 Signal Time	F11
F7	Output 2 Signal Time	F12
F9	Output with Reset (Interm. Cut)	F16
F10	Input Signal Logic	F3
F11	Input Damping (Attenuation)	F4
F12	Dynamic/Static Reset	F6
F14	Output Signal Memory	F18
F15	Additional Totalizer	F19
F17	Power-On Reset	F17
F20	Lock Reset Key	F20
F20	Lock Reset Key	F30
F21	Lock Preset 1 Settings	F32
F22	Lock Preset 2 Settings	F33
F23	Lock Prescaler Settings	F34
F29	Lock Mode	F35
	Edge (Quadrature) Evaluation	F2
	-	F7
	Mode of Preset 1	F8
	Output Signal Logic	F9
	Output 0 Signal Time	F10
	Display Flashing	F14
	Display in 2nd Row (Pulse)	F15
	-	F21
	Appl. Input/Output (Pulse)	F22
	-	F23

Replicate the function codes of C346 to VC772 as per the comparison given.

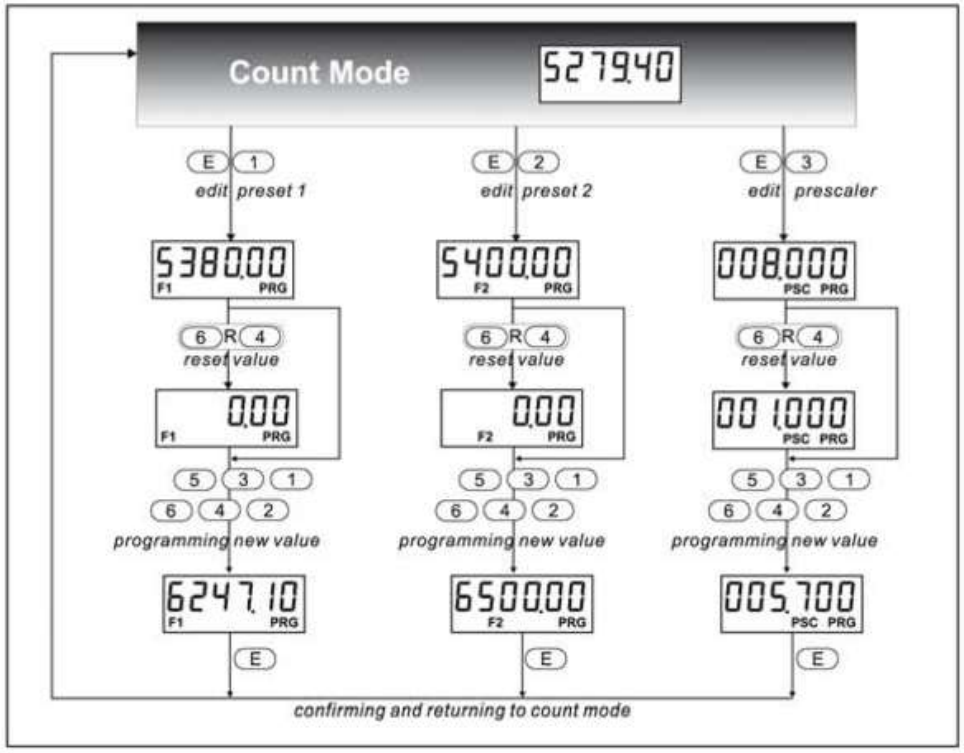
Additional functional codes in VC772 that is not available in C346. Refer Pg.: 42 to 53 in VersaCount Manual for more information.

	C346	VC772
	0 - Pulse Counter	
F0	Factory Settings (Defaults)	Factory Settings (Defaults)
F1	Mode of Oper. (Pulse/Batch)	Mode of Oper. (Pulse/Batch)
F2	-	Edge (Quadrature) Evaluation
F3	Decimal Point	Input Signal Logic
F4	Set/Reset Mode	Input Damping (Attenuation)
F5	-	Set/Reset Mode
F6	Output 1 Signal Time	Dynamic/Static Reset
F7	Output 2 Signal Time	-
F8	-	Mode of Preset 1
F9	Output with Reset (Interm. Cut)	Output Signal Logic
F10	Input Signal Logic	Output 0 Signal Time
F11	Input Damping (Attenuation)	Output 1 Signal Time
F12	Dynamic/Static Reset	Output 2 Signal Time
F13	-	Decimal Point
F14	Output Signal Memory	Display Flashing
F15	Additional Totalizer	Display in 2nd Row (Pulse)
F16	-	Output with Reset (Interm. Cut)
F17	Power-On Reset	Power-On Reset
F18	-	Output Signal Memory
F19	-	Additional Totalizer
F20	Lock Reset Key	-
F21	Lock Preset 1 Settings	-
F22	Lock Preset 2 Settings	Appl. Input/Output (Pulse)
F23	Lock Prescaler Settings	-
F24	-	Comm. If. Settings (reserved)
F25	-	Comm. If. Settings (reserved)
F26	-	Comm. If. Settings (reserved)
F27	-	Comm. If. Settings (reserved)
F28	-	-
F29	Lock Mode	-
F30	-	Lock Reset Key
F31	-	Lock Preset 0 Settings
F32	-	Lock Preset 1 Settings
F33	-	Lock Preset 2 Settings
F34	-	Lock Prescaler Settings

Setup and programming

SETUP FUNCTION PARAMETERS

C346 (Refer Pg-5 of manual)



VC772 (Refer Pg-26 to 28)

During Operation

▲ + ▼	Reset Value
E + ▶	Sets Preset 0
E + ▼	Sets Preset 1
E + ▲	Sets Preset 2
▲ + ▶	Sets Prescaler
	Programming new value...
▶	Selects the digit
▲ + ▼	Changes the value
E	Saves the new value - Exit

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