

## SmartLine® VersaFlow TWC 9400 Coriolis Mass Flow Converter CM96 Modular I/O

Model Selection Guide  
36-CM-16-50 Issue 8

## Model Selection Guide with Price Data

Honeywell Proprietary

Modular family of converters for all applications  
Industry standard outputs including NAMUR  
Common hardware for all housings  
Highest Process Safety  
Advanced diagnostics functions  
Excellent long term stability  
Easy to install and configure



### Instructions

Select the desired key number. The arrow to the right marks the selection available.  
Make the desired selections from Tables I through VIII using the column below the proper arrow. A dot (•) denotes availability.

Table	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
CM96	4	-	-	-	-	-	-	-	-	-	-

List Price equals the sum of prices for all selections made.

KEY NUMBER	Description	Selection	Availability
<b>CM96</b>	Modular I/O Converter	CM96	↓
<b>TABLE I</b>			
No Selection	None	4	*
<b>TABLE II</b>			
Type	TWC 9400 C TWC 9400 F Spare Converter Insert (Provide full model and serial number of original converter) Spare Converter Insert (supplied configured w new labels if necessary, requires original serial number)	4 H S T	* * <b>k</b> <b>l</b>
<b>TABLE III</b>			
Power supply	12 - 24 V DC ( 12 - 24 V DC ) 24 V DC/AC ( 19 - 29 V ) 100 - 230 V AC ( 85-250 V AC, 50/60 Hz )	1 4 A	* * *
<b>TABLE IV</b>			
Hazardous Area Approvals	None - non Ex ATEX Ex zone 1 (terminal compartment "d" - C, F) ATEX Ex zone 1 (terminal compartment "e" - C, F) cFMus Class 1, Div 1 IEC Ex (terminal compartment "d" C,F) IEC Ex (terminal compartment "e" C,F)	0 1 2 7 F G	* <b>f</b> <b>g</b> <b>h</b> <b>f</b> <b>g</b>
<b>TABLE V</b>			
Cable Connection	Default (See Note 1) 3 x 1/2" NPT adaptors made of metal (mandatory for cFMus) 3 x PF 1/2" adaptors made of metal 3 x M20 x 1,5 cable glands (standard: ATEX Ex de: metal). SS316 1/2" NPT adaptors(2x compact/4x remote) plus blanking plug	0_ 4_ 5_ 6_ R_	* * * * <b>c</b>
Operating Manual/ Language	German Manual German Language English Manual English Language French Manual French Language Spanish Manual Spanish Language English Russian Operating language	_1 _2 _4 _8 _S	* * * * *
<b>TABLE VI</b>			
Custody Transfer	None	0_	*
Process Diagnostics	Standard	_0	*
<b>TABLE VII</b>			
Converter housing	Without (for spare part electronics only) Standard St. st. 1.4404 ( for Compact ) St. st. 1.4404 ( for Field )	0 1 2 3	* * <b>a</b> <b>b</b>

The minimum value of orders acceptable for Honeywell is USD 500. Handling fee is the amount of the difference between USD 500 and the actual purchase price.

TABLE VIII

		Selection	Availability
No Selection	None	V _ _ _	*
Outputs Base Module	Module IO: CO act. + PO act./hc (CO-active+PO-active/high current)	_ 4 _ _	n
	Module IO: CO act. + PO pas./hc (CO-active+PO-passive/high cur.)	_ 6 _ _	p
	Module IO: CO act. + PO pas./Na (CO-active+PO-passive/Namur)	_ 7 _ _	q
	Module IO: CO pas. + PO act./hc (CO-passive+PO-active/high cur.)	_ 8 _ _	r
	Module IO: CO pas. + PO pas./hc (CO-passive+PO-passive/high cur.)	_ B _ _	s
	Module IO: CO pas. + PO pas./Na (CO-passive+PO-passive/Namur)	_ C _ _	t
RS 485 MODBUS	_ G _ _	u	
Outputs 1st I/O Module	Without IO module	_ _ 8 _	*
	Current Output - active	_ _ A _	*
	Current Output - passive	_ _ B _	*
	Pulse Output - active / high current	_ _ C _	*
	Pulse Output - passive / high current	_ _ E _	*
	Pulse Output - passive / Namur	_ _ F _	*
Outputs 2nd I/O Module	Without IO module	_ _ _ 8	*
	Current Output - active	_ _ _ A	*
	Current Output - passive	_ _ _ B	*
	Pulse Output - active / high current	_ _ _ C	*
	Pulse Output - passive / high current	_ _ _ E	*
	Pulse Output - passive / Namur	_ _ _ F	*
	Control Input - active / high current	_ _ _ G	*
	Control Input - active / Namur	_ _ _ H	*
	Control Input - passive / high current	_ _ _ K	*

TABLE IX

Measuring Functions	Standard (mass,density,temp.,vol.)	0 _ _	*
	Standard + Brix	1 _ _	*
	Standard + General concentration	2 _ _	*
	Standard + Baume 144.3	3 _ _	*
	Standard + Baume 145	4 _ _	*
	Standard + NaOH	5 _ _	*
	Standard + Plato	6 _ _	*
	Standard + API oil standard	A _ _	*
	Standard + Alcohol	B _ _	*
Manuals	Standard on CD	_ 0 _	*
	Paper manuals	_ 1 _	*
Remote Option Signal Cable	None required	_ _ 0	*
	5m/15ft	_ _ 4	m
	10m/30ft	_ _ 1	m
	20m/60ft	_ _ 5	m

TABLE X

Destination	Others	0	*
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TABLE XI

Sensors	Without (spare electronics)	0	*
	VFC 100	1	*
	VFC 200	2	*
	VFC 6000 size 08-100 Extended Stem	6	*
	VFC 1000	7	*
	VFC 6000 size 08 to 100 short stem	A	*
	VFC 6000 Size 150 to 250 Extended Stem	B	*
	VFC 6000 size 150 to 250 short stem	C	*

**Note 1: For cable gland option "0" - Default:**

- For non Ex: 2x plastic M20 cable glands and 1 plastic blanking plug
- For ATEX Ex d: 2 plastic transport plugs and 1 ATEX Ex d blanking plug made of metal
- For ATEX Ex de: 2 metal M20 cable glands and 1 ATEX Ex d blanking plug made of metal

**RESTRICTIONS**

Restriction Letter	Available only with		Not available with	
	Table	Selection	Table	Selection
a	II	4		
b	II	H		
c	IV	0		
f	II	4, H, S		
	V	0		
g	II	4, H, S		
	V	0, 6		
h	II	4, H, S		
	V	4		
k	V	0		
	IX	00		
l	V	0		
	IX	00		
m	II	H		
n	VIII	__ 8 8, __ 8 C, __ A 8, __ A A, __ A C, __ A G, __ C C, __ C G		
p	VIII	__ 8 8, __ 8 E, __ A 8, __ A A, __ A E, __ A K, __ E E, __ E K		
q	VIII	__ 8 8, __ 8 F, __ A 8, __ A A, __ A F, __ A H, __ F F, __ F H,		
r	VIII	__ 8 8, __ 8 C, __ B 8, __ B B, __ B C, __ B G, __ C C, __ C G		
s	VIII	__ 8 8, __ 8 E, __ B 8, __ B B, __ B E, __ B K, __ E E, __ E K		
t	VIII	__ 8 8, __ 8 F, __ B 8, __ B B, __ B F, __ B H, __ F F, __ F H		
u	VIII	__ 8 8, __ A 8, __ A A, __ A C, __ A K, __ C 8, __ C C, __ C K		

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Modular I/O (Table VIII)								
Position								
1	2	3	1	2	3	1	2	3
4	8	8	6	8	8	7	8	8
		C			E			F
	A	8		A	8		A	8
		A			A			B
		C			E			C
		G			K			G
	C	C		E	E		F	F
		G		K	K		H	H

Modular I/O (Table VIII)					
Position					
1	2	3	1	2	3
B	8	8	C	8	8
		E			F
	B	8		B	8
		B			B
		E			F
		K			H
	E	E		F	F
		K			H

Modbus (Table VIII)		
Position		
1	2	3
G	8	8
	A	8
		A
		C
		K
		H
	C	8
		C
		K

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