



COMPARATIVE TABLE – ENERGY METERS / ACTUATORS

The importance of Smart Metering in Home and Building Automation is growing bigger everyday. Not only is it a very useful feature for any home / building owner, but it has also become a compulsory element in order to comply with more and more legal regulations and directives all around the world.

There are quite a few hardware / software solutions for the control and monitoring of Smart Metering in a KNX System, but first of all you need to obtain all the consumption data and have it sent to the Bus.

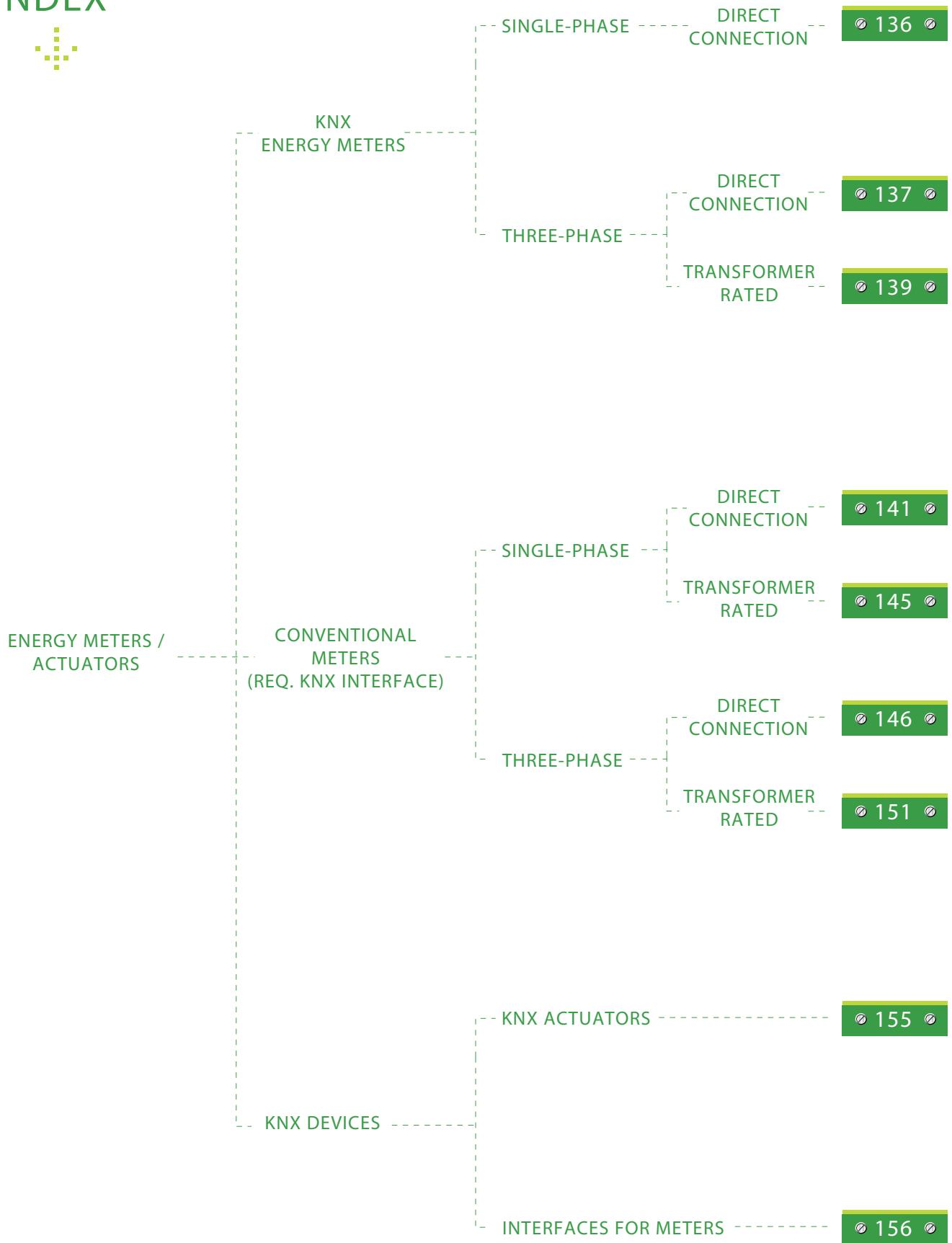
Choosing the right counter is not always easy because there are numerous factors to take into account (Ex.: current, phases, tariffs, type of energy, etc.). With this Comparative Table of Energy Meters for KNX we are hoping to make this task much easier.



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KNX ENERGY METERS / SINGLE-PHASE / DIRECT CONNECTION

MANUFACTURER	LINGG & JANKE		
IMAGE			
WEB CODE	9530		
MANUF REFERENCE	87722		
DESCRIPTION	DIRECT CONNECTION- SINGLE-PHASE AC 2 QUADRANT MULTI-TARIFF- ACTIVE ENERGY COUNTER		
DES. RANGE	FACILITYWEB		
VOLTAGE V AC	1 X 230		
CURRENT A AC	85		
DIN U	FLUSH MOUNTED		
OTHER FEATURES			
PHASES	1		
TARIFFS	8		
PRECISION CLASS	C		
QUADRANT (SUPPLY AND PURCHASE)	2		
MID (MEASURING INSTRUMENT DIRECTIVE)	YES		
BUS CONNECTION	KNX		
ACTIVE ENERGIE	YES		
REACTIVE ENERGIE	NO		
DIRECT CONNECTION	X		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	245,00 €		



KNX ENERGY METERS / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	HAGER		LINGG & JANKE			
IMAGE						
WEB CODE	9891		9531			
MANUF REFERENCE	TE360		87731			
DESCRIPTION	DIRECT CONNECTION, THREE-PHASE ACTIVE ENERGY COUNTER WITH REACTIVE ENERGY MEASUREMENT +/- 15%		DIRECT CONNECTION, THREE-PHASE MULTI-TARIFF- ACTIVE ENERGY COUNTER			
DES. RANGE	TEBIS KNX		FACILITYWEB			
VOLTAGE V AC	3 x 230/400VAC		3x230/400V			
CURRENT A AC	100		85			
DIN U	7		FLUSH MOUNTED			
OTHER FEATURES						
PHASES	3		3			
TARIFFS	2		2			
PRECISION CLASS	ACTIVE = B, 1% BLIND = +/- 15%		2			
QUADRANT (SUPPLY AND PURCHASE)	1		1			
MID (MEASURING INSTRUMENT DIRECTIVE)	NO		YES			
BUS CONNECTION	KNX		KNX			
ACTIVE ENERGIE	YES		YES			
REACTIVE ENERGIE	+/- 15%		NO			
DIRECT CONNECTION	YES		YES			
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	400,40 €		275,00 €			



KNX ENERGY METERS / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	LINGG & JANKE		LINGG & JANKE			
IMAGE						
WEB CODE	9532		9533			
MANUF REFERENCE	87732		87744			
DESCRIPTION	DIRECT CONNECTION, THREE-PHASE 2 QUADRANT MULTI-TARIFF- ACTIVE ENERGY COUNTER		DIRECT CONNECTION- THREE-PHASE 4 QUADRANT ACTIVE- AND REACTIVE ENERGYZÄHLER			
DES. RANGE	FACILITYWEB		FACILITYWEB			
VOLTAGE V AC	3 x 230/400V		3 x 230/400V			
CURRENT A AC	85		85			
DIN U	FLUSH MOUNTED		NO			
OTHER FEATURES						
PHASES	3		3			
TARIFFS	8		8			
PRECISION CLASS	C		C			
QUADRANT (SUPPLY AND PURCHASE)	2		4			
MID (MEASURING INSTRUMENT DIRECTIVE)	YES		YES			
BUS CONNECTION	KNX		KNX			
ACTIVE ENERGIE	YES		YES			
REACTIVE ENERGIE	NO		YES			
DIRECT CONNECTION	YES		YES			
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	275,00 €		340,00 €			



KNX ENERGY METERS / THREE-PHASE / TRANSFORMER RATED

MANUFACTURER	HAGER	LINGG & JANKE
IMAGE		
WEB CODE	9892	9889
MANUF REFERENCE	TE370	87750
DESCRIPTION	ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER WITH REACTIVE ENERGY MEASUREMENT +/- 15%	ACTIVE AND REACTIVE ENERGY THREE-PHASE 4 QUADRANT TRANSFORMER RATED COUNTER 5 A/5 A
DES. RANGE	TEBIS KNX	FACILITYWEB
VOLTAGE V AC	3X230/400V AC	NO
CURRENT A AC	0,01 UP 6 A	5
DIN U	4	NO
OTHER FEATURES		
PHASES	3	3
TARIFFS	2	8
PRECISION CLASS	ACTIVE = B, 1% BLIND = +/- 15%	C
QUADRANT (SUPPLY AND PURCHASE)	1	4
MID (MEASURING INSTRUMENT DIRECTIVE)	NO	YES
BUS CONNECTION	KNX	KNX
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	+/- 15%	YES
DIRECT CONNECTION	NO	NO
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM YES	APPLIC. PROGRAM YES
	FIXED	BY ORDER
	BY ORDER	APPLIC. PROGRAM YES
		FIXED
		BY ORDER
LIST PRICE	390,00 €	555,00 €



KNX ENERGY METERS / THREE-PHASE / TRANSFORMER RATED

MANUFACTURER	LINGG & JANKE		
IMAGE			
WEB CODE	9890		
MANUF REFERENCE	87751		
DESCRIPTION	ACTIVE AND REACTIVE ENERGY THREE-PHASE 4 QUADRANT TRANSFORMER RATED COUNTER 5 A/5 A		
DES. RANGE	FACILITYWEB		
VOLTAGE V AC	NO		
CURRENT A AC	5		
DIN U	NO		
OTHER FEATURES			
PHASES	3		
TARIFFS	8		
PRECISION CLASS	C		
QUADRANT (SUPPLY AND PURCHASE)	4		
MID (MEASURING INSTRUMENT DIRECTIVE)	YES		
BUS CONNECTION	KNX		
ACTIVE ENERGIE	YES		
REACTIVE ENERGIE	YES		
DIRECT CONNECTION	NO		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	590,00 €		



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9900	9907
MANUF REFERENCE	DBB21000	FBB 11200
DESCRIPTION	DIRECT CONNECTION - SINGLE - PHASE AC ACTIVE ENERGY COUNTER	DIRECT CONNECTION - SINGLE - PHASE AC SINGLE-TARIFF
DES. RANGE	DELTAPLUS DIREKTMESSENDE ZÄHLER	DELTASINGLE
VOLTAGE V AC	1x57 ... 288	230
CURRENT A AC	5(80)	5(80)
DIN U	7	4
OTHER FEATURES		WITH PULSE OUTPUT
PHASES	1	1
TARIFFS	NO	1
PRECISION CLASS	2	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	APPLIC. PROGRAM
	FIXED	FIXED
	BY ORDER	BY ORDER
LIST PRICE	284,00 €	194,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9908	9909
MANUF REFERENCE	FBB 11205	FBB 11206
DESCRIPTION	DIRECT CONNECTION - SINGLE - PHASE AC MUTLI-TARIFF COUNTER - 2 TARIFF	DIRECT CONNECTION - SINGLE - PHASE AC MUTLI-TARIFF COUNTER - 4 TARIFF
DES. RANGE	DELTASINGLE	DELTASINGLE
VOLTAGE V AC	230	230
CURRENT A AC	5(80)	5(80)
DIN U	4	4
OTHER FEATURES	WITH INTEGR. WATCH & PULSE OUTPUT	WITH INTEGR. WATCH & PULSE OUTPUT
PHASES	1	1
TARIFFS	2	3
PRECISION CLASS	1	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM 	APPLIC. PROGRAM
LIST PRICE	205,00 €	244,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9910	9911
MANUF REFERENCE	FBU 11200	FBU 11205
DESCRIPTION	DIRECT CONNECTION - SINGLE - PHASE AC SINGLE-TARIFF	DIRECT CONNECTION - SINGLE - PHASE AC MULTI-TARIFF COUNTER - 2 TARIFF
DES. RANGE	DELTASINGLE	DELTASINGLE
VOLTAGE V AC	230	230
CURRENT A AC	5(80)	5(80)
DIN U	4	4
OTHER FEATURES		WITH INTEGR. WATCH
PHASES	1	1
TARIFFS	1	2
PRECISION CLASS	1	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	APPLIC. PROGRAM
	FIXED	FIXED
	BY ORDER	BY ORDER
LIST PRICE	192,00 €	201,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9912	9913
MANUF REFERENCE	FBU 11206	OD 1065
DESCRIPTION	DIRECT CONNECTION - SINGLE - PHASE	DIRECT CONNECTION - SINGLE - PHASE AC ACTIVE ENERGY COUNTER
DES. RANGE	DELTASINGLE	ODINSINGLE (i)
VOLTAGE V AC	230	230
CURRENT A AC	5(80)	65
DIN U	4	2
OTHER FEATURES	WITH INTEGR. WATCH	
PHASES	1	1
TARIFFS	4	NO
PRECISION CLASS	1	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM FIXED BY ORDER	APPLIC. PROGRAM FIXED BY ORDER
LIST PRICE	242,00 €	163,00 €

(i) DOES NOT COMPLIE DIN TYPE



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / TRANSFORMER RATED

MANUFACTURER	ABB		
IMAGE			
WEB CODE	9901		
MANUF REFERENCE	DAB11000		
DESCRIPTION	ACTIVE ENERGY - SINGLE - PHASE AC TRANSFORMER RATED COUNTER		
DES. RANGE	DELTAPLUS STANDARD-ZÄHLER		
VOLTAGE V AC	1x57 ... 288		
CURRENT A AC	1 (6)		
DIN U	7		
OTHER FEATURES			
PHASES	1		
TARIFFS	NO		
PRECISION CLASS	1		
QUADRANT (SUPPLY AND PURCHASE)	1		
MID (MEASURING INSTRUMENT DIRECTIVE)	YES		
BUS CONNECTION	+ ZS/S 1.1		
ACTIVE ENERGIE	YES		
REACTIVE ENERGIE	NO		
DIRECT CONNECTION	NO		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	284,00 €		



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	
IMAGE	 	
WEB CODE	9894	9895
MANUF REFERENCE	DBB12000	DBB22000
DESCRIPTION	DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER	
DES. RANGE	DELTAPLUS DIREKTMESSENDE ZÄHLER	DELTAPLUS DIREKTMESSENDE ZÄHLER
VOLTAGE V AC	3x100 ... 500	3x100 ... 500
CURRENT A AC	5(80)	5(80)
DIN U	7	7
OTHER FEATURES		
PHASES	3	3
TARIFFS	NO	NO
PRECISION CLASS	1	2
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	X	X
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM FIXED BY ORDER	APPLIC. PROGRAM FIXED BY ORDER
LIST PRICE	503,00 €	
	431,00 €	



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9896	9897
MANUF REFERENCE	DBB13000	DBB23000
DESCRIPTION	DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER	DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER
DES. RANGE	DELTAPLUS DIREKTMESSENDE ZÄHLER	DELTAPLUS DIREKTMESSENDE ZÄHLER
VOLTAGE V AC	3 x 57/100 UP TO 3 x 288/500	3 x 57/100 UP TO 3 x 288/500
CURRENT A AC	5(80)	5(80)
DIN U	7	7
OTHER FEATURES		
PHASES	3	3
TARIFFS	NO	NO
PRECISION CLASS	1	2
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM FIXED BY ORDER	APPLIC. PROGRAM FIXED BY ORDER
LIST PRICE	460,00 €	391,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9898	9899
MANUF REFERENCE	DBB23002	DBB23004
DESCRIPTION	DIRECT CONNECTION, THREE - PHASE MULTI-TARIFF COUNTER - 4 TARIFF, (CONTROL OF THE 4 TARIFFS VIA 230 V INPUT)	DIRECT CONNECTION, THREE - PHASE MULTI-TARIFF COUNTER - 4 TARIFF (CONTROL OF THE 4 TARIFFS VIA COMMUNICATION)
DES. RANGE	DELTAPLUS DIREKTMESSENDE ZÄHLER	DELTAPLUS DIREKTMESSENDE ZÄHLER
VOLTAGE V AC	3 x 57/100 UP TO 3 x 288/500	3 x 57/100 UP TO 3 x 288/500
CURRENT A AC	5(80)	5(80)
DIN U	7	7
OTHER FEATURES		
PHASES	3	3
TARIFFS	4	4
PRECISION CLASS	2	2
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM 	APPLIC. PROGRAM
	FIXED	BY ORDER
LIST PRICE	505,00 €	505,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9915	9914
MANUF REFERENCE	OD 4165	OD 1365
DESCRIPTION	DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER 4-LEITER	DIRECT CONNECTION - SINGLE - PHASE AC ACTIVE ENERGY COUNTER
DES. RANGE	ODIN-METER(,)	ODINSINGLE(,)
VOLTAGE V AC	3 x 230/400	230
CURRENT A AC	65	65
DIN U	6	2
OTHER FEATURES	WITH RESETABLE INTERMEDIATE COUNTER & PULSE OUTPUT	
PHASES	3	1
TARIFFS	NO	NO
PRECISION CLASS	2	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM FIXED BY ORDER	APPLIC. PROGRAM FIXED BY ORDER
LIST PRICE	267,00 €	187,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

MANUFACTURER	ABB		
IMAGE			
WEB CODE	9902		
MANUF REFERENCE	DDB13000		
DESCRIPTION	DIRECT CONNECTION - THREE - PHASE ACTIVE - AND REACTIVE ENERGYZÄHLER		
DES. RANGE	DELTAPLUS DIREKTMESSENDE ZÄHLER		
VOLTAGE V AC	3 x 57/100 UP TO 3 x 288/500		
CURRENT A AC	5 (80)		
DIN U	7		
OTHER FEATURES			
PHASES	3		
TARIFFS	NO		
PRECISION CLASS	1		
QUADRANT (SUPPLY AND PURCHASE)	1		
MID (MEASURING INSTRUMENT DIRECTIVE)	YES		
BUS CONNECTION	+ ZS/S 1.1		
ACTIVE ENERGIE	YES		
REACTIVE ENERGIE	YES		
DIRECT CONNECTION	YES		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	661,00 €		



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9903	2120
MANUF REFERENCE	DAB12000	DAB13000
DESCRIPTION	ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER	ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER
DES. RANGE	DELТАPLUS STANDARD-ZÄHLER	DELТАPLUS STANDARD-ZÄHLER
VOLTAGE V AC	3 x 100 ... 500	3 x 57/100 UP TO 3 x 288/500
CURRENT A AC	1(6)	1(6)
DIN U	7	7
OTHER FEATURES		
PHASES	3	3
TARIFFS	NO	NO
PRECISION CLASS	1	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	YES	YES
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM YES	APPLIC. PROGRAM YES
	FIXED	FIXED
	BY ORDER	BY ORDER
LIST PRICE	414,00 €	369,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9904	9905
MANUF REFERENCE	DAB13002	DAB13004
DESCRIPTION	MULTI-TARIFF COUNTER - 4 TARIFF, ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER (CONTROL OF THE 4 TARIFFS VIA 230 V INPUT)	MULTI-TARIFF COUNTER - 4 TARIFF, ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER (CONTROL OF THE 4 TARIFFS VIA COMUNICATION)
DES. RANGE	DELТАPLUS STANDARD-ZÄHLER	DELТАPLUS STANDARD-ZÄHLER
VOLTAGE V AC	3 x 57/100 UP TO 3 x 288/500	3 x 57/100 UP TO 3 x 288/500
CURRENT A AC	1(6)	1(6)
DIN U	7	7
OTHER FEATURES		
PHASES	3	3
TARIFFS	4	4
PRECISION CLASS	1	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	NO
DIRECT CONNECTION	NO	NO
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM YES	APPLIC. PROGRAM YES
LIST PRICE	493,00 €	493,00 €



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

MANUFACTURER	ABB	ABB
IMAGE		
WEB CODE	9916	9906
MANUF REFERENCE	OD 4110	DCB12000
DESCRIPTION	ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER 4-LEITER	ACTIVE AND REACTIVE ENERGY THREE-PHASE TRANSFORMER RATED COUNTER
DES. RANGE	ODIN-METER(1)	DELТАPLUS STANDARD-ZÄHLER
VOLTAGE V AC	3 x 230/400	3 x 100 ... 500
CURRENT A AC	5	1(6)
DIN U	6	7
OTHER FEATURES		
PHASES	3	3
TARIFFS	NO	NO
PRECISION CLASS	2	1
QUADRANT (SUPPLY AND PURCHASE)	1	1
MID (MEASURING INSTRUMENT DIRECTIVE)	YES	YES
BUS CONNECTION	+ ZS/S 1.1	+ ZS/S 1.1
ACTIVE ENERGIE	YES	YES
REACTIVE ENERGIE	NO	YES
DIRECT CONNECTION	NO	NO
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM YES	APPLIC. PROGRAM YES
	FIXED	FIXED
	BY ORDER	BY ORDER
LIST PRICE	253,00 €	738,00 €

(1) DOES NOT COMPLIE DIN TYPE



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

MANUFACTURER	ABB		
IMAGE			
WEB CODE	2121		
MANUF REFERENCE	DCB13000		
DESCRIPTION	ACTIVE AND REACTIVE ENERGY THREE-PHASE TRANSFORMER RATED COUNTER		
DES. RANGE	DELTAPLUS STANDARD-ZÄHLER		
VOLTAGE V AC	3 x 57/100 UP TO 3 x 288/500		
CURRENT A AC	1(6)		
DIN U	7		
OTHER FEATURES			
PHASES	3		
TARIFFS	NO		
PRECISION CLASS	1		
QUADRANT (SUPPLY AND PURCHASE)	1		
MID (MEASURING INSTRUMENT DIRECTIVE)	YES		
BUS CONNECTION	+ ZS/S 1.1		
ACTIVE ENERGIE	YES		
REACTIVE ENERGIE	YES		
DIRECT CONNECTION	NO		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	661,00 €		



KNX DEVICES / KNX ACTUATORS

MANUFACTURER	ABB		
IMAGE			
WEB CODE	9893		
MANUF REFERENCE	SE/S 3.16.1		
DESCRIPTION	ENERGY ACTUATOR		
DES. RANGE	ABB I-BUS KNX		
VOLTAGE V AC	95...265		
CURRENT A AC	0,025...20		
DIN U	4		
OTHER FEATURES	3 SCHALTAUSGÄNGE 20A C LAST 3 ZÄHLER + GESAMT		
PHASES	3 X 1		
TARIFFS	NO		
PRECISION CLASS	"(500mA... 5A) ± 3 % (5...20 A) ± 2 % "		
QUADRANT (SUPPLY AND PURCHASE)	1		
MID (MEASURING INSTRUMENT DIRECTIVE)	NO		
BUS CONNECTION	KNX		
ACTIVE ENERGIE	YES		
REACTIVE ENERGIE	YES		
DIRECT CONNECTION	YES		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	402,90 €		



KNX DEVICES / INTERFACES FOR METERS

MANUFACTURER	ABB		
IMAGE			
WEB CODE	6166		
MANUF REFERENCE	ZS/S 1.1		
DESCRIPTION	KNX METER INTERFACE MODULE, REG FOR ABB ENERGY METERS TYPES DELTAPLUS, DELTASINGLE, ODIN OR ODINSINGLE		
DES. RANGE	ABB I-BUS KNX		
VOLTAGE V AC	KNX		
CURRENT A AC	KNX		
DIN U	2		
OTHER FEATURES	INFRAROTSCHNITTSTELLE		
PHASES	NO		
TARIFFS	NO		
PRECISION CLASS	NO		
QUADRANT (SUPPLY AND PURCHASE)	NO		
MID (MEASURING INSTRUMENT DIRECTIVE)	NO		
BUS CONNECTION	KNX		
ACTIVE ENERGIE	NO		
REACTIVE ENERGIE	NO		
DIRECT CONNECTION	NO		
CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA:	APPLIC. PROGRAM	FIXED	BY ORDER
LIST PRICE	187,00 €		