

Redefine Innovative Metering

Technical Datasheet

ZOT PROP

ELECTRICAL SIGNAL CONVERTER - POWER

ZOT PRO P is a programmable signal converter used to measure and cor Current analog output for process control application

Product Features

Analog Output (Single or dual)

 Isolated analog output which can be set to voltage or current output onsite

Measuring Input

 AC Voltage/Current input signal, sine wave or distorted wave form

Accuracy

 Output signal accuracy class 0.2 as per International IEC / EN 60688 Standard

Programmable Input/Output

 The Transducer can be programmed onsite using front key & display or through programming port (COM) or through RS 485

LED Indication

- LED indication for power on and output type
- Current output : Red LED, Voltage output : Green LED

Display Module(Optional)

 Optional 7 segment LCD display with backlit & keypad. For displaying measured parameter & onsite configuration of Input/output

• RS485 Communication (Optional)

 Optional RS485 communication is available. For reading measured parameter & onsite configuration of input/output





Technical Specifications

Types	
Measured Parameter	Active Power / Reactive Power / Apparent Power / Power Factor / Phase Angle.
Network Type Supported by Power transducer	Single Phase / 3 phase 3 wire Unbalanced / 3 phase 4 wire Unbalanced 3 phase 3 wire balanced / 3 phase 4 wire balanced
Network Type Supported by Power Factor & Phase	Single Phase / (U12 I1) 3 Phase Balanced load (U13 I1) 3 Phase Balanced load / (U23 I1) 3 Phase Balanced load 3 phase 3 wire balanced / 3 Phase 4 wire Balanced load
Nominal Voltage Input (U _N)	
Nominal input Voltage (AC RMS) (PT Secondary range) PT Primary range	$100 \text{ V} \le U_N \le 500 \text{ VL-L}$ 100 V = 692.8 KVL-L
Nominal Frequency F _N	25 Hz to 65 Hz (Optional 400Hz)
Nominal input Voltage burden	< 0.6 VA per phase at U _N

Nominal Current Input (I _N) Nominal input Current (AC RMS) (CT Secondary range) CT Primary range Nominal Frequency F _N	powered from measuring input). $1 A \le I_N \le 5 A$	
Nominal input Current (AC RMS) (CT Secondary range) CT Primary range Nominal Frequency F _N	1 / < < 5 /	
· · · · ·	1 A to 9999 A	
	25 Hz to 65 Hz (Optional 400 Hz)	
Nominal input Current burden	< 0.2 VA per phase at I _N	
Overload Capacity	$1.2 * I_N$ continuously $10 * I_N$ for 3 second, repeated 5 times at 5 minute intervals $50 * I_N$ for 1 second, repeated 1 times at 1 hour interval (Max 250 A).	
Allowed measuring range end values X2 (calibration factor Xc):		
With single phase AC active/reactive/apparent power With 3-phase AC active/reactive/apparent power (For single phase Rated Power=U _N /V3 x I _{N)} (For Three phase Rated Power=V3 x U _N x I _{N)}	$0.30 \le (X2/Rated Power) \le 1.3 \times U_N / \sqrt{3} \times I_N$ $0.30 \le (X2/Rated Power) \le 1.3 \times \sqrt{3} \times U_N \times I_N$	
Phase Angle & Power Factor measuring Range	Minimum span 20° to Maximum Span 360°	
Measuring Output Y (Single or Optional Dual)		
Output type	Load independent DC Voltage , DC Current	
Load independent DC output	On site selectable through DIP switches Unipolar 020mA / 420mA OR 010V Bipolar -20mA0+20mA OR -10V0+10V	
Output burden with DC current output signal	0 ≤ R ≤ 15V/Y2	
Output burden with DC voltage output signal	Y2/(2 mA) ≤ R ≤ ∞	
Current limit under overload R=0	≤ 1.25 * Y2 with current output ≤ 100 mA with voltage output	
Voltage limit under R=∞	< 1.25 * Y2 with voltage output ≤ 30 V with current output	
Residual Ripple in Output signal	≤ 1% pk-pk	
Response Time	< 750 ms	
Auxiliary Power Supply		
AC/DC Auxiliary Supply	60V 300 VAC-DC ± 5% or 24V60V VAC-DC ± 10%	
AC Auxiliary supply AC Auxiliary supply frequency range	40 to 65 Hz	
Auxiliary supply frequency range Auxiliary supply consumption	70 to 05 Hz	
50V300 VAC-DC	< 8VA for Single output	
	< 10VA for dual output	
24V60 VAC-DC	< 5VA for Single output	
	≤ 6VA for dual output	
Accuracy (Acc. to IEC / EN 60688)	S o victor additionable	
Reference Value	Output end Value Y2 (Voltage or Current)	
Basic Accuracy for power transducer	0.2*C	
Basic Accuracy for Phase Angle & Power Factor transd		
Reference conditions for accuracy	ucci 0.5 C	

For phase angle For power factor 0.5 Auxiliary supply voltage Output Load Rn = 7.5 V / Y2 ± 1% Rn = 7.5 V / Y2 ± 1	For Power Transducer:		
Pre-conditioning 30 min acc., to IEC / EN 60688 Input Variable Voltage Rated / Current Rated Input Variable Voltage Rated / Current Rated Input Vaveform Sinusoidal, Form Factor 1.1107 Input Signal frequency 50 or 60H2 Active / Reactive factor Cos Φ=1 resp. Sin Φ=1 For Phase Angle & Power Factor Transducer: Reference Value Power Factor Rore prase angle 90° resp. For phase angle 90° resp.	Ambient temperature	23°C +/- 1°C	
Input Variable on Voltage Rated / Current Rated on Input syand frequency Son worker of Sinusoidal, Form Factor 1.1107 input signal frequency So or 60H2 Active / Reactive factor Cos Φ=1 resp. Sin Φ=1 For Phase Angle & Power Factor Transducer: Reference Value For phase angle 90° resp. For power factor 0.5 Auxiliary supply voltage At nominal range Output Load Rn = 7.5 V / Yz ± 1% With DC current output signal Rn = 7.5 V / Yz ± 1% With DC current output signal Rn = 7.5 V / Yz ± 1% With DC current output signal Rn = 7.2 / I mA ± 1% With DC current output signal Rn = 7.5 V / Yz ± 1% With DC current output signal	·	30 min acc. to IEC / EN 60688	
Input waveform Input signal frequency So or 60Hz Active / Reactive factor For Phase Angle & Power FactorTransducer: Reference Value For phase Angle & Power Factor For phase Angle & Pow	-		
Input signal frequency Active / Reactive factor Cos Φ=1 resp. Sin Φ = 1 For Phase Angle & Power Factor Transducer: Reference Value For phase angle & O.5 Auxiliary supply voltage Output Load Rn = 7.5 V / Y2 ± 1% With DC current output signal Rn = Y2 / 1 mA± 1% With DC voltage outpu	·		
Active / Reactive factor For Phase Angle & Prower Factor Transducer: Reference Value For phase angle For power factor O.5 Auxiliary supply voltage Output Load Rn = 7.5 V / V ± 1% With DC current output signal Rn = Y 2 / 1 mA ± 1% With DC voltage output signal Rn = Y 2 /	·	·	
For Phase Angle & Power Factor Transducer: Reference Value For phase angle For phase angle For power factor Auxiliary supply voltage Output Load Rn = 7.5 V / 72 ± 1% With DC current output signal Rn = Y2 / 1 mA± 1% With DC voltage output signal Rn = Y2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2			
Reference Value For phase angle Output Load Rn = 7.5 V / Y2 ± 1% With DC current output signal Rn = 7.5 V / Y2 ± 1% With DC current output signal Rn = 7.5 V / Y2 ± 1% With DC voltage output signal Rn = Y2 / 1 m Å ± 1% With DC voltage output signal			
For power factor Auxiliary supply voltage At nominal range Output Load Rn = 7.5 V / Y2 ± 1% With DC current output signal Rn = Y2 / 1 mA± 1% With DC voltage output signal Rn = Y2 / 1 mA± 1 mA = Y2 / 1 mA± 1	Reference Value		
Auxiliary supply voltage Output Load Rn = 7.5 V / Y2 ± 1% With DC voltage output signal Rn = 7.5 V / Y2 ± 1% With DC voltage output signal Rn = 7.5 V / Y2 ± 1% With DC voltage output signal With DC voltage output	For phase angle	90° resp.	
Output Load Rn = 7.5 V / Y2 ± 1%	For power factor	0.5	
Miscellaneous Acc. to IEC / EN 60688 Acc. to IEC / EN 60529 Acc. to	Auxiliary supply voltage	At nominal range	
Miscellaneous Acc. to IEC / EN 60688 Acc. to IEC / EN 60529 Acc. to		_	
Additional error Temperature influence	·		
Additional error Temperature influence Influence of variations: As per IEC / EN 60688 standard. Output stability Safety Protection Class Protection IP 40, housing according to EN 60529 IP 20, terminal according to EN 60529 IP 20, terminal according to EN 60529 III Implication Voltage Implicati	Miscellaneous		
Influence of variations: As per IEC / EN 60688 standard. Output stability < 30 min Safety Protection Class	Additional error		
Influence of variations: As per IEC / EN 60688 standard. Output stability < 30 min Safety Protection Class	Temperature influence	+ 0.2%/10°C	
Output stability Safety Protection Class			
Protection Class			
Protection Class II (Protection Isolated, EN 61010) P 40, housing according to EN 60529 P 20, terminal according to EN 60529	·	< 30 min	
Protection IP 40, housing according to EN 60529 IP 20, terminal according to EN 60529 Pollution degree 2 Installation Category III Insulation Voltage Imin. (EN 61010-1) 7700V DC, Input versus outer surface 5200V DC, Input versus all other circuits 5200V DC, Auxiliary supply versus outer surface and output 690V DC, Output versus output versus each other versus outer surface Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature O°C23°C45°C(usage Group II) Storage temperature -40°C to 70°C	Safety		
Pollution degree 2 Installation Category Insulation Voltage In	Protection Class	II (Protection Isolated, EN 61010)	
Pollution degree Installation Category III Insulation Voltage Insulat	Protection		
Installation Category Insulation Voltage Imin. (EN 61010-1) 7700V DC, Input versus outer surface 5200V DC, Input versus all other circuits 5200V DC, Auxiliary supply versus outer surface and output 690V DC, Output versus output versus each other versus outer surface Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40°C to 70°C	Pollution degree	-	
Insulation Voltage 1min. (EN 61010-1) 7700V DC, Input versus outer surface 5200V DC, Input versus all other circuits 5200V DC, Auxiliary supply versus outer surface and output 690V DC, Output versus output versus each other versus outer surface 690V DC, Output versus output versus each other versus outer surface 690V DC, Output versus output versus each other versus outer surface 690V DC, Output versus output versus each other versus outer surface 690V DC, Output versus output versus each other versus output versus each other versus outer surface 690V DC, Output versus output versus each other versus output versus each other versus outer surface 690V DC, Output versus outer surface and output 690V DC, Output versus outer surface 700 DC 700 DC		III	
7700V DC, Input versus outer surface 5200V DC, Input versus all other circuits 5200V DC, Auxiliary supply versus outer surface and output 690V DC, Output versus output versus each other versus outer surface Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C		1min. (EN 61010-1)	
5200V DC, Auxiliary supply versus outer surface and output 690V DC, Output versus output versus each other versus outer surface Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C		7700V DC, Input versus outer surface	
output 690V DC, Output versus output versus each other versus outer surface Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature O°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C		5200V DC, Input versus all other circuits	
Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C		5200V DC, Auxiliary supply versus outer surface and	
Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C		output	
Installation data Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) -40 °C to 70 °C		690V DC, Output versus output versus each other	
Mechanical Housing Lexan 940 (polycarbonate) Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire Environmental 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C		versus outer surface	
Flammability Class V-0 acc. To UL 94, self extinguishing non dripping, free of halogen Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C	Installation data		
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Rail mounting / wall mounting Weight Approx. 0.4kg Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C			
Weight Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature Storage temperature Approx. 0.4kg Conventional Screw type terminal with indirect wire pressure ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire 4.0 mm² single wire or 2 x 2.5 mm² fine wire -4.0 mm² single wire or 2 x 2.5 mm² fine wire -4.0 mm² single wire or 2 x 2.5 mm² fine wire			
Connection Terminal Connection Element Conventional Screw type terminal with indirect wire pressure Permissible cross section of the connection lead Environmental Operating temperature O°C23°C45°C(usage Group II) -40 °C to 70 °C	Weight	_	
pressure Permissible cross section of the connection lead Environmental Operating temperature Storage temperature pressure ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ✓ 0°C23°C45°C(usage Group II) -40 °C to 70 °C	Connection Terminal		
pressure Storage temperature permissible cross section of the connection lead pressure ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire 1 0°C23°C45°C(usage Group II) -40 °C to 70 °C	Connection Element	Conventional Screw type terminal with indirect wire	
Permissible cross section of the connection lead Environmental Operating temperature Storage temperature ≤ 4.0 mm² single wire or 2 x 2.5 mm² fine wire 0°C23°C45°C(usage Group II) -40 °C to 70 °C			
Environmental Operating temperature Storage temperature 0°C23°C45°C(usage Group II) -40 °C to 70 °C	Permissible cross section of the connection lead	•	
Operating temperature 0°C23°C45°C(usage Group II) Storage temperature -40 °C to 70 °C			
Storage temperature -40 °C to 70 °C			
	Operating temperature		
Relative humidity of annual mean ≤ 75%	Storage temperature		
	Relative humidity of annual mean	≤ 75%	

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Altitude	2000m max
Ambient Tests	
EN 60 068-2-6	Vibration
Acceleration	± 2 g
Frequency range	1015010Hz,
Rate of frequency sweep	1 octave/minute
Number of cycles	10, in each of the three axes
EN 60 068-2-7	Shock
Acceleration	3 x 50g, 3 shocks in each direction
EN 60 068-2-1/-2/-3	Cold, Dry, Damp heat
IEC 1000-4-2/-3/-4/-5/-6 EN 55 011	Electromagnetic compatibility

Basic Accuracy for Phase Angle & Power Factor transducer 0.5*C

Factor C (The highest value applies if calculated C is less than 1,then C=1 applies)

Linear characteristics:

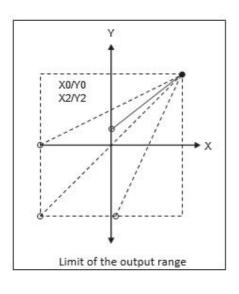
$$C = \frac{1 - \frac{Y0}{Y2}}{1 - \frac{X0}{X2}} \text{ or } C = 1$$

For
$$X0 \le X \le X1$$
 $C = \frac{Y1 - Y0}{X1 - X0} \cdot \frac{X2}{Y2}$ or $C = 1$

For X1
$$\leq$$
 X \leq X2 $C = \frac{1 - \frac{Y1}{Y2}}{1 - \frac{X1}{X2}}$ or C=1

Output Characteristics:

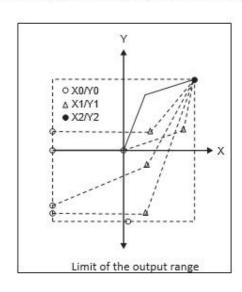
Example of setting with Linear Characteristics:



X0 = Start value of input Y0 = Start value of output X1 = Elbow value of input

Y1 = Elbow value of output X2 = End value of input Y2 = End value of output

Note: End value (Y2) of output cannot be changed onsite.



Example of setting with bent Characteristics:

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LED CONNECTIONS:

ON LED	Aux.supply healthy condition	Green LED continuous ON	
	Output1 voltage selection	Green LED continuous ON	
O/P1 LED	Output1 current selection	Red LED continuous ON	
	Output2 voltage selection	Green LED continuous ON	
O/P2 LED	Output2 current selection	Red LED continuous ON	

Electrical Connections:

Connection	Terminal details	
Measuring Voltage Input	UL1 UL2 UL3 N	2
		5
		8
		11
Auxilliary Power supply	~,+	13
	~,-	14
Measuring output - 1	+	15
	-	16

Connection	Terminal details	
Measuring Current Input	I1 I1' I2 I2' I3 I3'	1
		3
		4
		6
		7
		9
Measuring output - 2	+	17
	-	18

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Connection Diagram and Installation

3 PHASE 4 WIRE UNBALANCED LOAD 3 PHASE 3 WIRE UNBALANED LOAD 2300030000000 (13(16) (17(18) **268** 00 7934569 UL1 AUX SUPPLY UL2 0 UL1 0 UL3 UL2 D UL3 -3 PHASE 4 WIRE BALANCED LOAD 3 PHASE 3 WAIRE BALANCED LOAD (15(16) (17(18) 17(18) AUX O/P-1 O/P-2 AHY UL1 UL 1 0 0 UL2 UL2 UL3 UL3 D D 1 PHASE 2 WIRE U12|1 3 PHASE BALANCED LOAD ΘΘ 13 (1) (1) (1) 19 19 19 19 AUX O/P-1 O/P-2 AUX O/P-1 O/P-2 UL1 0 O UL2 UL1 UL3 D U13 | 1 3 PHASE BALANCED LOAD U23|1 3 PHASE BALANCED LOAD 1966 1768 19 19 19 19 AUX O/P-1 O/P-2 UL1 O UL1 0

A UL2

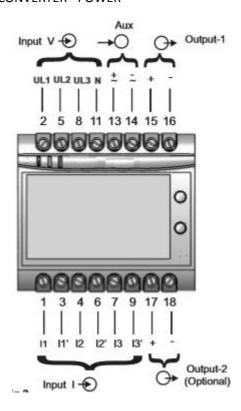
D UL3

A

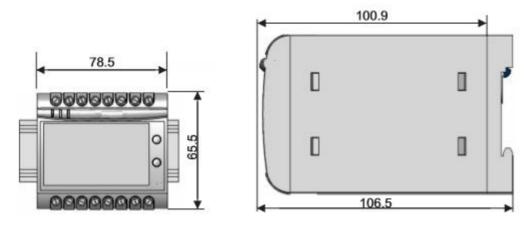
UL2

UL3

ELECTRICAL SIGNAL CONVERTER - POWER



Dimensions



PROGRAMMING

Programming of converter can be done in three ways:

- 1) Programming Via Front LCD & two keys
- 2) Programming Via optional RS485(MODBUS) communication port (Device address, PT Ratio, CT Ratio, Password, communication parameter, Output Type & simulation mode can be programmed)
- 3) Programming Via Programming port available at the front of converters using optional Adapter

Programming Via Programming port (COM): A PC with RS232C interface along with the programming cable and the configuration software are required to Program the converter.

The connections between

ELECTRICAL SIGNAL CONVERTER - POWER

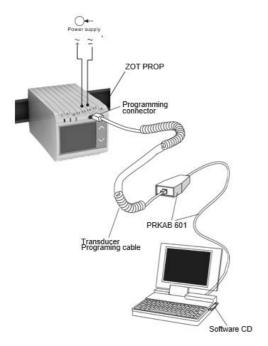
The power supply must be applied to converter before it can be programmed, the Configuration software is supplied on a CD The programming cable adjusts the signal level and provides the electrical insulation between the PC and ZOT PRO converters **Configuring converter**: To configure ZOT PRO converter Input / output one of the three programming methods can be adapted along with mechanical switch setting (DIP switch setting on PCB).

DIP Switch Setting for OUTPUT: Type of output (current or voltage signal) has to be set by DIP switch. For programming of DIP switch the user needs to open the converter housing & set the DIP switch located on PCB to the desired output type Voltage or

Current. Output range changing is not possible with DIP switch setting.

Refer table aside for DIP switch setting.

The four pole DIP switch is located on the PCB in the ZOT PRO converter



DIP Switch Setting

Type of Output Signal

load-independent current

ON 1234

load-independent voltage

The four pole DIP switch is located on the PCB in the ZOT PROP Transducer

Ordering Information: Standard Version

Sr.No.	Transducer parameter
1	Input Signal
	Active Power
	*Network supported : 3 phase 4 wire unbalanced load
2	Frequency of Input (50 Hz / 60 Hz)
3	Auxiliary Supply

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	High Aux (60V 300V AC-DC)
	Low Aux (24V 60V AC-DC)
4	Output 1 (Standard Ranges)
	Current = -200. 20 mA
5	Output 2 (Standard Ranges)
	Voltage = -100 10V
6	With Display
7	Without RS-485
8	Without programming cable

Note: End value of output can not be changed onsite.

Ordering Information:

Optional Version:

Sr.No.	Transducer paramet	er	(✓)
1	Input Signal		
_	Active Power		
	Reactive Power		
	Apparent Power		
		Single phase	
	*Network supported :	3 phase 3 wire unbalanced load	
		3 phase 4 wire unbalanced load	
		3 phase 4 wire balanced load	
		3 phase 3 wire balanced load	
	Power factor/		
	Phase angle		
		Single phase/	
	*Network supported :	3 phase 4 wire balanced load	
		3 phase 3 wire balanced load	
		(U12I1) 3 phase balanced load	
		(U13I1) 3 phase balanced load	

^{*} Transducer type and network supported are onsite programmable.

	(U23I1) 3 phase balanced load		
2	Frequency of Input(50 Hz / 60 Hz)		
3	Auxiliary Supply		
	High Aux (60V300 VAC-DC		
	Low Aux (24V60 VAC-DC		
4	Output 1		
	**Current = -2020 mA		
	Current = 0 20 mA		
	Current = 4 20 mA		
	**Voltage = -10 10V		
	Voltage = 010V		
	Optional factory set ranges		
	Current = 0 10 mA		
	Current = 0 5 mA		
	Current = 0 2.5 mA		
	Current = 0 1 mA		
	Voltage = 05V		
	Voltage = 0 2.5V		
	Voltage = 01V		
5	Output 2		
	Without output 2		
	**Current = -2020 mA		
	Current = 0 20 mA		
	Current = 4 20 mA		
	**Voltage = -1010V		
	Voltage = 010V		
	Optional factory set ranges		
	Current = 0 10 mA		
	Current = 0 5 mA		
	Current = 0 2.5 mA		
	Current = 0 1 mA		
	Voltage = 05V		
	Voltage = 0 2.5V		
6	Voltage = 01V		
ь	LCD display module		
	With Display		
	Without Display		

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7	RS-485 module
	With RS-485
	Without RS-485
8	PRKAB 601module
	With PRKAB 601
	Without PRKAB 601

Optional Version Example:

Reactive Power transducer, 3 phase 3 wire balanced network ,50/60 Hz nominal input signal, High Aux, Output1 = 0...20mA or 0...10V, Output2= 0...10V or 0...20mA, With LCD display module, with RS-485 & with PRKAB 601 cable.

Note: End value of output can not be changed onsite.

^{*} Transducer type and network supported are onsite programmable.

^{**}For apparent power, -20...0....20mA or ,-10....0...10V is not applicable

Ziegler

Redefine Innovative Metering

Ziegler Instrumentation UK Ltd.