

# CD66

## Advanced PID Process Controller



Single/Double Analogue Input – Single/Double PID control loop  
PID control loop Powerful display, interactive text  
messages

On-line programming Help

Dynamic smart Tune

CT loop break alarm

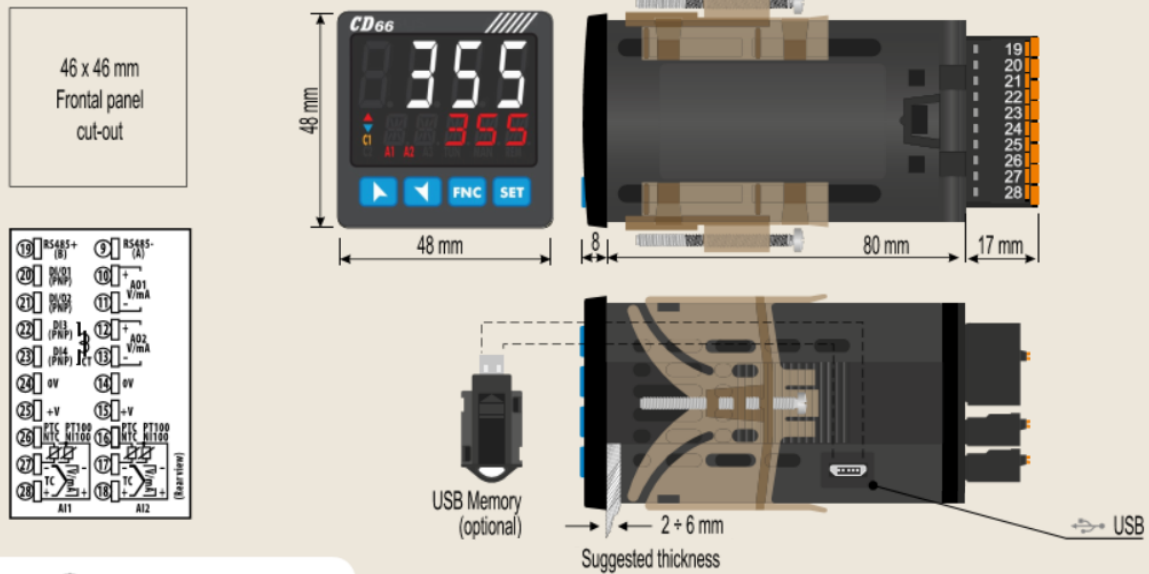
Analogue Output

Modbus RTU option  
CD Automation UK Ltd

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# Main features

BOX	48 x 48 (front panel) x 107 mm
POWER SUPPLY	24..230V AC / DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2.5KV
POWER CONSUMPTION	8W
DISPLAY	4 digits 0.5" white + 5 digits 0.3" red
OPERATING CONDITIONS	Temperature 0-45 °C, humidity 35..95 RH%
MATERIAL	Box: PC UL94V2 self-extinguishing, front panel: PC UL94V2
WEIGHT	Approx. 185g
SEALING	IP65 (front panel) IP20 (box and terminal bloks)
QUICK SET-UP OPTIONS	Memory Card, software

## Input

2 CONFIGURABLE	Res. 16 bit, selectable for TC type K, S, R, J, T, N, B (automatic compensation of the cold junction -25..85°C, $\pm 0.2\%$ F.S. $\pm 1$ digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K ( $\beta$ 3435K), process signals 0..10 V (50000 points), 0/4..20mA (40000 points), 0..60 mV (25000 points), potentiometer 1..150K $\Omega$ (50000 points)
SAMPLING TIME	Programmable up to 2.1 ms (frequency up to 470Hz)
2/4 DIGITAL INPUT	Setpoint change, Hold, Run, Tuning launch, Start / Stop, Lock configuration
1 CURRENT TRANSFORMER (C.T.) INPUT	Selection C.T. 50mA, 800 $\mu$ s - 4096 points

## Outputs

3 RELAYS	Relay 2A - 250V AC resistive change
2 SSR	12 / 24V DC - 25 mA max
2 ANALOGUE	Selection 4..20 mA (40000 points $\pm 0.2\%$ F.S.) or 0..10 V DC (40000 points $\pm 0.2\%$ F.S.) for command or retransmission PV / SV
SERIAL COMMUNICATION	RS485 Modbus RTU - Slave (4800..115200 baud code-T)

## Software features

CONTROL ALGORITHMS	ON - OFF with hysteresis, P, PI, P.I.D., P.D. time proportioned
TUNING	Manual or automatic
DATA PROTECTION	Lock of control / alarm setpoint / Access to parameters by password
ALARM MODES	Absolute / Threshold, Band, High / Low deviation. Alarm with optional manual reset. Loop Break Alarm function
AUTO / MANUAL FUNCTION	Output percentage command also with automatic change in case of sensor failure
DOUBLE P.I.D.	Heating / Cooling P.I.D.
SOFT-START	Rising gradient expressed as Degrees / Hour or fixed output percentage
OPEN / CLOSE LOGIC	Open / Close logic for motorized valves

## Ordering codes

CD66024230485CTM	2 Analogue Inputs + 3 Relays 2A + 2 SSR + 2/4 Digital Inputs + 2 Analogue Outputs V/mA + RS485 + CT - 24 VAC/DC
CD66115230485CTM	2 Analogue Inputs + 3 Relays 2A + 2 SSR + 2/4 Digital Inputs + 2 Analogue Outputs V/mA + RS485 + CT - 115..230 VAC