

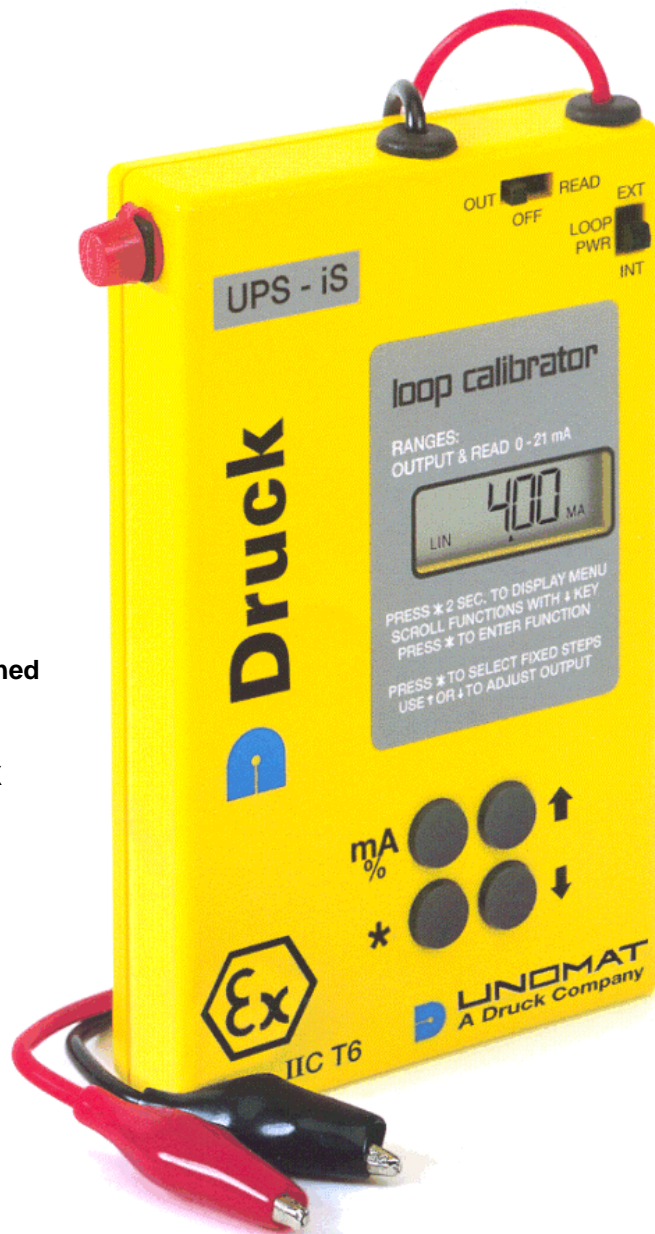
UPS - IS

Intrinsically safe loop calibrator



UPS

- Sources and reads milliamps
- Simulates 2-wire transmitters
- Powers and reads 2-wire transmitters
- Reads and simulates dp-transmitters in percentage of flow
- Fixed calibration currents
- Auto-stepping for handsfree calibration
- Auto-ramp cycling for endurance tests
- Fixed currents for valve stroking



Intrinsically safe
EEx ia IIC T6
for use in IEC defined
Zones 0, 1 and 2

Certificate:
CESI Ex-94.C.071X

Specifications

SPECIFICATIONS

Output range
0-21.00 mA

Input range
0-21.00mA

Accuracy
0.05% of range

Resolution
10 microamps

Temperature effect
0.003% /°C, 0.0015% /°F

Internal loop power
12 to 13 Volts at 20mA

External loop power
30 VDC max.

Measurement input
12 Ohms including fuse

Drive capability
20 mA into 570 Ohms

Operating temperature
-10°C to +40°C, 14°F to 104°F

Storage temperature
-20°C to +45°C

Power supply
Integral rechargeable battery pack with power limiting components

Battery life
25 hours in read mode
5 hours at 12mA in source mode

Recharging period
14 hours

Charge/Line adaptor
P/N 13606 230 V / 50 Hz
P/N 13605 115 V / 60 Hz

Loop mismatch
Flashes "LOOP"

Low battery
Flashes "LOBAT"

Overrange
Flashes "EEEE"

Reversed polarity
Flashes "POL"

Housing
High impact ABS

Size
3" x 5" x 0.83"
77 x 124 x 21mm

Weight
285 grams/9oz

The UPS-IS can power (12 to 13 Volts) and read 2-wire transmitters to perform field calibrations. Output currents are adjustable to a resolution of 10 microamps in both source and transmitter simulation modes.

FIXED STEPS

The calibration can source or stimulate fixed calibration currents to test or calibrate receivers and to stroke valves. Different current levels are available from the menu.

4-20mA linear	4	8	12	16	20mA		
0-20mA linear	0	5	10	15	20mA		
4-20mA sq.rt (flow)	4	5	8	13	20mA		
0-20mA sq.rt (flow)	0	1.25	5	11.25	20mA		
4-20mA valve	3.8	4	4.2	12	19	20	21mA

Output currents can be changed manually or automatically. The time between steps is 10 seconds in the auto-stepping mode. In the valve mode, auto-stepping will be:

3.8 - 4 - 4.2 or 19 - 20 - 21mA

RAMPING

The calibrator can source or simulate with high resolution a continuous up/down cycle between 4 and 20mA or 0 and 20mA. The travel time between limits is 60 seconds.

READING IN PERCENTAGE

The calibrator can display readings in percentage of a 4-20mA or 0-20mA span and can also read or simulate dP-transmitters directly in percentage of flow.

Input Safety Parameters

U_i	:< 30V DC
I_i	:< 215mA DC
P_i	:< 1.3 Watt
C_i	: = 5nF
L_i	Negligible

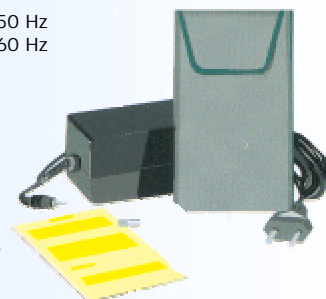
Output Safety Parameters

U_o	max. out : 21V DC
I_o	max. out : 122mA DC
C_o	:< 250nF
L_o	:< 2.3mH
P_o	max. out : <0.64 Watt

ORDERING INFORMATION

Model UPS-IS includes carrying case, instruction guide, spare fuse and Charge/Line adaptor. Please specify one of the following charger/line adaptors when ordering.

P/N 13606 230 V/50 Hz
P/N 13605 115 V/60 Hz



UPS-IS accessories

Continuing development sometimes necessitates specification changes without notice.

