



ADP2/T

Electronic Calculator for Fuel dispensers



The main advantages of the ADP2/T calculators are its reliability and high performance, low price and guaranteed quality. The most outstanding features of the calculators are: high flow measurement, integrated Electronic Calibration of meters (EC), Automatic Temperature Compensation (ATC) and the internal vapour recovery control. The calculator controls all functions necessary for the dispenser to operate and no additional electronic modules are needed. The calculator operates in wide temperature range. Flexibility of the calculator is achieved by a set of functional parameters (i.e. required by various national standards and conventions, different dispenser types, adjustable position of the decimal points etc.) ADP2/T calculators are approved according to OIML R117-1 and Welmec Guide 10.4.

ADP2/T can control fuel dispensing from two dispensing sites. One product can be delivered on both dispensing sites, i.e. the pump calculator can control two nozzles. The calculator can operate in either a standalone (manual) or communication mode. The calculator primarily uses EASYCALL communication protocol that is implemented in a variety of POSes and forecourt controllers.

ADP2/T calculator also supports other communication protocols: IFSF, DART, PUMALAN, NARA. Communication according to the IFSF standard requires the PKONV EC-IFSF module.

Wireless service keyboard allows setting of the unit price, parameters, electronic meter calibration or ATC. Access to parameters can be optionally protected by a PIN code, to prevent unauthorised modification.

The calculator is equipped with internal electronic nozzle totals for volume, amount and number of transactions as well as with non-resettable meter volume totals. The internal electronic totals can be displayed on the side displays or read out via the communication line. Optionally, the calculator can be extended with seven-digits electromechanical litre volume totals.

ADP1/T-SMX is a special software version of the ADP2/T for high flow fuel dispensers. The Supermax dispenser based on the ADP1/T-SMX enables high flow filling 200 L/min. High flow rate is achieved by the parallel connection of meters and pumps.

ADP2/T-CNG is a special software version of the ADP2/T for CNG dispensers (Compressed Natural Gas). CNG dispensers with the ADP2/T-CNG calculators enable up to 3-level filling from two independent filling sides (nozzles). ADP2/T-CNG operates with Coriolis meters Micro Motion CNG050 or E+H CNGMass. The ADP2/T-CNG is approved according to OIML R139 and Welmec Guide 10.4.

Features:

- Electronic calculator for fuel dispensers of the type MONO/DUO/DUPLEX for public petrol stations
- Software versions for CNG dispensers or high flow dispensers so called Supermax
- Supported communication protocols: EASYCALL, IFSF, DART, PUMALAN, NARA
- Electronic calibration of meters
- Internal automatic temperature compensation (ATC)
- Errors history
- Monitoring of the dispenser case
- Internal vapour recovery control
- Motor control with thermal fuses
- Wide range of ambient operating temperatures
- Certified according to OIML R117-1, OIML R139, Welmec Guide 10.4.



Technical data:

Power supply	230VAC \pm 15 %, 50VA max.
Operating temperature	-40° C to +70° C
Display	LCD, digit height 25,4mm, LED backlight
Communication line	galvanic coupling RS 485
Communication protocols	EasyCall, DART, Pumalan, Nara, IFSF (requires external IFSF module)
Maximum flow	680 l/min
Shaft encoder type	two or three channel, OPEN COLLECTOR outputs, power supply +5 V
Analogue input for the PT100	Sensor PT100 class A acc. to IEC751 temperature range from -30° C to +55° C
Dimensions	263x196x90 mm
Coverage	IP20B

Expand Modules:

DISPLCD/N-BL/PW – external side display.

KL-MANINF – enables setting of unit prices, displaying of the electronic totals.

KL-SERINF – enables parameters setting, electronic calibration setting, setting of the ATC, setting of the unit prices and displaying of the electronic totals.

TOT1/T – electromechanical litre volume total.

PKONV EC-IFSF - IFSF communication interface designed for ADP1/L calculators. It is also compatible with the ADP/T, ADP/M and ADP/E calculators.

Communication lines:
EASYCALL - RS485, 9600Bd
IFSF - FTT-10 (Free Topology Twisted Pair).

PLOG 485 - Converts the RS485 line to the current loop according to the PUMALAN specification. Mounted onto DIN rail 35mm.