

OIML Member State United Kingdom of Great Britain and Northern Ireland	OIML Certificate No. R117/2007-B-GB1-18.01 Revision 1
OIML CERTIFICATE ISSUED UNDER SCHEME B	
OIML Issuing Authority	NMO Stanton Avenue Teddington TW11 0JZ United Kingdom Person responsible: Mannie Panesar – Head of Technical Services
Applicant	Hytek (GB) Ltd Delta House, Green Street Elsenham, Bishops Stortford, Herts, CM22 6DS United Kingdom
Manufacturer	The applicant
Identification of the certified type	Alpha Fuel Dispenser <i>(the detailed characteristics are defined in the Descriptive Annex)</i>
<p>This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):</p> <p>OIML R 117-1, Edition: 2007</p> <p>For accuracy class: 0.5</p>	
<p>Issue date: 17 September 2019</p> <p>The OIML Issuing Authority</p>  <p>Grégory Glas Lead Technical Manager <i>For and on behalf of the Head of Technical Services</i></p>	

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. P02336-01 dated 04 December 2018 that includes 60 pages

The technical documentation relating to the identified type is contained in documentation file:

No. P02336-01-D dated 04 December 2018

OIML Certificate History

Revision No.	Date	Description of the modification
0	04 December 2018	OIML Certificate first issued.
1	17 September 2019	Alternative software section added.

Important note:

Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

DESCRIPTIVE ANNEX

The Alpha is an interruptible meter measuring system for use in the presence of both trading parties when used in standalone mode.

Characteristics of the instrument:

Accuracy Class:	0.5
Mechanical Class:	M1
Electromagnetic Environment Class:	E1
Climatic environment:	H3
Temperature Range Ambient:	-25°C to +40°C
V _{min} :	2 litres
Liquids:	≤ 3.17 mPa.s
Q _{min} :	5 l/min
Q _{max} :	80 l/min
P _{max} :	3.5 bar
Power supply	230 VAC

Construction:

The base and internal dispenser frame is constructed from riveted angled stainless steel and stainless-steel panel work. The frame is clad with stainless steel panels and the hinged front doors are secured with two key locks one lower one upper.

The dispenser enclosure may be constructed of steel, aluminium, GRP or a combination of these materials.

The graphics display and logic board which form the calculator is mounted in the upper head. The display can be viewed through a clear window in the front panel.

The dispenser enclosure may be used to house an approved self-service device.

The pump unit and meter are supported on the internal dispenser frame.

The nozzle holster is made from cast aluminium and is mounted on the dispenser's side panel.

Essential parts:

Manufacturer	Type
Meter	
Shanghai Aile Manufacturing Company	SB-100
Encoder	
Eltomatic A/S	01-08
Gas Separator	
Bennett	T75
Electronic Calculator	
Alpha	ALP.DISP3.W

Conditional characteristics:

The combination of hose type and length is selected to ensure hose dilation does not result in a displayed quantity at the start of a transaction prior to the nozzle being operated.

Nozzle with built-in non-return valve.

Non-essential parts:

The following items may be included within the hydraulic circuits:

- Shear valves for use on dispensers
- Non-return valves separate from the pump and gas separator
- Swivels and or safety breaks in the hose assembly circuit

Software:

The software version and checksum number are displayed on the LCD display for four seconds after lifting the nozzle and replacing without drawing fuel. Access to software is secured by wire and seal.

S/W version number: V4.38

Checksum number: 1BC6B555

Alternative software:

S/W version number: V4.45

Checksum number: 4364 1AF7

Interfaces:

Modbus protocol for connection to a self-service device.

Sealing and verification marks:

The data plate is located on the dispenser enclosure and is secured by being of a form such that it is destroyed when removed.

The meter, encoder, gas separator and calculator are secured with a wire and seal. Refer to documentation file No. P02336-01-D.