



NOTICE OF APPROVAL

AVIS D'APPROBATION

Issued by statutory authority of the Minister of Industry
 for:

Émis en vertu du pouvoir statutaire du ministre de
 l'Industrie pour:

TYPE OF DEVICE

TYPE D'APPAREIL

Electronic Polyphase Energy-Demand Meter
 (Time-of-Use)

Compteur d'énergie et de maximum électronique,
 polyphase (heure d'utilisation)

APPLICANT

REQUÉRANT

Power Measurement Limited
 2195 Keating Cross Road
 Saanichton, BC
 V8M 2A5

MANUFACTURER

FABRICANT

Power Measurement Limited
 2195 Keating Cross Road
 Saanichton, BC
 V8M 2A5

MODEL(S)/MODÈLE(S)

RATING/ CLASSEMENT

ION 7500/7600

Wide ranging Voltage/Gamme étendue de tension:
 0 to 347 volts (ac) (Line to Neutral)/0 à 347 volts (c.a.) (Phase neutre)
 0 to 600 volts (ac) Line to Line/0 à 600 volts (c.a.) (Phase phase)
 Frequency/fréquence: 60 Hz
 0.1 to 20 amperes/ 0.1 à 20 ampères
 2 element, 3 wire, delta/2 éléments, 3 fils, triangle
 3 element, 4 wire, wye/ 3 éléments, 4 fils, étoile

NOTE: This approval applies only to meters, the design, composition, construction and performance of which are, in every material respect, identical to that described in the material submitted, and that are typified by samples submitted by the applicant for evaluation for approval in accordance with sections 13 and 14 of the Electricity and Gas Inspection Regulations. The following is a summary of the principal features only.

SUMMARY DESCRIPTION:

This Notice of Approval applies equally to the 7500 ION and 7600 ION models. The difference between the model 7500 ION and the model 7600 ION is that the 7600 ION has additional power quality features as compared to the model 7500 ION.

The meter is a solid state, four (4) quadrant, bi-directional, multi-function polyphase meter. The 7500/7600 ION is approved as a panel meter.

The meter is approved for bi-directional and four (4) quadrant energy metering (kW•h, kvar•h, kVA•h, V²•h and I²•h).

The meter is approved for bi-directional block interval, sliding window, and thermal demand metering (kW, kvar and kVA).

The meter is approved for time-of-use metering.

The meter is approved for initiating energy pulses outputs from up to four (4) Form A or three (3) Form C outputs.

REMARQUE: Cette approbation ne vise que les compteurs dont la conception, la composition, la construction et le rendement sont identiques, en tout point, à ceux qui sont décrits dans la documentation reçue et pour lesquels des échantillons représentatifs ont été fournis par le requérant aux fins d'évaluation, conformément aux articles 13 et 14 du Règlement sur l'inspection de l'électricité et du gaz. Ce qui suit est une brève description de leurs principales caractéristiques.

DESCRIPTION SOMMAIRE:

Le présent avis d'approbation vise les modèles 7500 ION et 7600 ION. Le modèle 7600 ION comporte plus de caractéristiques de puissance que le 7500 ION, ce qui permet de les distinguer.

Il s'agit d'un compteur polyphasé multi-fonctions bidirectionnel à semi-conducteurs, quatre (4) quadrants. Les compteurs de modèle 7500/7600 ION sont approuvés comme appareil de tableau.

Le compteur est approuvé pour la mesure d'énergie bidirectionnelle et à quatre (4) cadrans (kW•h, kvar•h, kVA•h, V²•h et I²•h).

Le compteur est approuvé pour la mesure de maximum thermique, à intervalle d'intégration et à fenêtre mobile (kW, kvar et kVA).

Le compteur est approuvé pour la mesure selon le temps d'utilisation.

Le compteur est approuvé pour lancer des impulsions de sortie à partir de quatre (4) sorties de forme A ou de trois (3) sorties de forme C au plus.

PHYSICAL DESCRIPTION

The meter incorporates a graphical LCD display, four (4) navigation buttons, a program and an escape button all located on the front panel. In addition there are five (5) softkey buttons located directly under the LCD.

The meter is approved to be used with an internal modem.

The meter has three (3) LED's located on the front panel. The top (green) shows that power is being delivered to the meter. The middle green LED pulses for every 1.8 kW•h. The bottom red LED is user programmable and expected for alarm notification purpose.

The rear panel has ten (10) LEDs used to show that the communication channels are operating properly and as programmed.

PROGRAMMING

The meter can be programmed (configured) either via the front display and keypad or via commands sent to any communications port.

Before the meter can communicate with a power-monitoring network, the meter has to be set up through the front panel.

Programming (enabling/disabling/configuration) of the billing registers is only possible when the meter is unsealed.

Time-of-use programming includes four rates (A,B,C,D) weekdays, weekends, holidays. Programming includes up to four (4) seasons.

DESCRIPTION MATÉRIELLE

Le panneau avant du compteur comporte un afficheur graphique à cristaux liquides, quatre touches de navigation, une touche de programmation et une touche d'échappement. L'appareil est également doté de cinq (5) touches de fonction programmables situées directement sous le dispositif d'affichage.

Le compteur est approuvé pour être utilisé avec un modem interne.

Le panneau avant du compteur comporte trois (3) diodes électroluminescentes : une verte, située dans le haut, indique que le compteur est alimenté; une verte, située au milieu, clignote à tous les 1,8 kW•h; une rouge, située au bas du panneau, peut être programmée par l'utilisateur et sert à avertir en cas d'alarme.

Le panneau arrière comporte dix (10) diodes électroluminescentes servant à indiquer que les canaux de communication fonctionnent correctement selon la programmation.

PROGRAMMATION

Le compteur peut être programmé (configuré) à l'aide du clavier et de l'afficheur avant ou au moyen de commandes envoyées à un port de communication.

Avant de pouvoir communiquer avec un réseau de mesure en permanence de la puissance électrique, le compteur doit être réglé au moyen du panneau avant.

La programmation (activé/désactivé/configuration) des indicateurs de facturation ne peut être effectuée que lorsque le compteur n'est pas scellé.

La programmation selon le temps d'utilisation comprend quatre taux (A, B, C, D) la semaine, la fin de semaine et les jours fériés. La programmation comporte quatre saisons au plus.

SEALING

An added security feature is performed by means of software prior to the meter being put in service and after verification or reverification.

THEORY OF OPERATION

The meter utilizes a 32-bit microprocessor and DSP technology to perform the metering functions.

The voltage and current inputs are digitally sampled at a rate of 128 samples per cycle on the model 7500 ION and at a rate of 256 samples per cycle on the model 7600 ION. Digital signal processing and numerical calculations are performed continuously on a half (1/2) cycle by half (1/2) cycle basis and second by second basis.

COMMUNICATIONS

The meter incorporates the following simultaneous/concurrent communication ports as follows;

- S** one RS-232/RS-485 communication port;
- S** one RS-485 internal modem communication port;
- S** one Infrared IRDA communication port (front panel);
- S** one internal modem communication port; and
- S** one Ethernet communication port.

SCELLAGE

Un autre dispositif de sécurité est ajouté à l'aide d'un logiciel avant la mise en service du compteur et après la vérification ou la revérification

PRINCIPE DE FONCTIONNEMENT

Les fonctions métrologiques du compteur sont effectuées à partir d'un microprocesseur de 32 bits et par traitement numérique des signaux.

Le modèle 7500 ION fait appel à l'échantillonnage numérique pour recueillir à chaque cycle 128 échantillons provenant de l'entrée de tension et de courant alors que le 7600 ION en recueille 256. Le traitement numérique des signaux et les calculs numériques sont effectués en continu à tous les demi-cycles et à toutes les secondes.

COMMUNICATIONS

Le compteur comporte les ports de communication simultanés/concurrents suivants :

- S** un port de communication RS-232/RS-485;
- S** un port de modem interne RS-485;
- S** un port infrarouge IRDA (panneau avant);
- S** un port de communication de modem interne;
- S** un port de communication Ethernet.

MODES OF OPERATION

Normal Operating Mode

This is the default mode of operation in that it is activated when power is supplied to the meter.

Test Mode

The test mode can only be accessed by means of PEGASYS software.. Seperate registers are used for all billing functions and all test mode registers are set to zero when the test mode is exited via software.

DISPLAY and INDICATORS

Local display of 7500/7600 ION register values is accomplished via a programmable LCD display. The number of registers that are displayed and the order in which they appear is programmable and set at the factory or by the owner prior to meter sealing.

SPECIFICATIONS

Operating Temperature: -20°C to +70°C

Firmware: V204

EVALUATED BY

Fred Bissagar
Complex Approval Examiner
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MODES DE FONCTIONNEMENT

Mode normal

Il s'agit du mode de fonctionnement qui est activé par défaut lorsque le compteur est mis sous tension.

Mode d'essai

Seul le logiciel PEGASYS permet l'accès au mode d'essai. Des indicateurs séparés sont utilisés pour les fonctions de facturation et tous les indicateurs en mode d'essai sont mis à zéro lorsque le logiciel est utilisé pour sortir du mode d'essai.

AFFICHEURS et VOYANTS

L'affichage local des valeurs d'enregistrement des modèles 7500/7600 ION peut être effectué à l'aide d'un afficheur à cristaux liquides programmable. Le nombre d'indicateurs affichés ainsi que leur ordre d'apparition peuvent être programmés. La programmation est effectuée à l'usine ou encore par le propriétaire avant le scellage du compteur.

CARACTÉRISTIQUES

Plage de températures de service : -20 °C à +70 °C

Microprogramme : V204

ÉVALUÉ PAR

Fred Bissagar
Examineur d'approbation complexes
Tél (613) 952-4610
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NAMEPLATE AND MARKINGS

PLAQUE SIGNALÉTIQUE ET MARQUAGES

V ₁	V ₂	V ₃	V ₄	V _{ref}	I ₁₁	I ₁₂	I ₂₁	I ₂₂	I ₃₁	I ₃₂	I ₄₁	I ₄₂	I ₅₁	I ₅₂
3~ VOLTAGE INPUTS					3~ CURRENT INPUTS									

POWER MEASUREMENT

Balkfunktion/Waage/et al
V without Meter

TYPE: _____

SERIAL NUMBER: _____

MODEL NO.: _____ CAL DATE: _____

POWER SUPPLY: _____

CURRENT INPUTS: _____

VOLTAGE INPUTS: _____

MAC ADDRESS: _____

VTR: _____ FREQ: _____

CTR: _____ TA: _____

PRO: _____ CA: _____

MULT BY: _____ W: _____

OPERATING TEMP: Δ10 M°C

⚠ DANGER

MORE THAN ONE LIVE CIRCUIT - SEE OR ASK A
L'ÉQUIPEMENT DE L'ÉQUIPEMENT SENSIBLES
CIRCUIT/SOUS-TENSION, VOIR LE SCHEMA.

HAZARDOUS VOLTAGE CAN CAUSE SHOCK, BURNS, OR DEATH!
1) DISCONNECT AND LOCKUP ALL POWER SOURCES AND
2) DISCONNECT ALL CURRENT TRANSFORMER SECONDARIES BEFORE REWIRING.

HIPOT / DIELECTRIC TEST CAUTIONS

DO NOT HIPOT / DIELECTRIC TEST THE DIGITAL INPUTS,
DIGITAL OUTPUTS, OR COMMUNICATIONS TERMINALS,
CURRENT AND VOLTAGE TERMINALS. BRUKBILM 32250V - FOR 1 IN FULLE
RELAY TERMINALS: MAXIMUM 2000V - FOR 1 IN FULLE
POWER SUPPLY INPUTS. REFER TO INSTALLATION GUIDE.

This device complies with Part 15 of the FCC Rules. Operation
is subject to the following two conditions: (1) This device may
not cause harmful interference, and (2) this device must accept
any interference received, including interference that may
cause undesired operation.

U.S. PATENT 5,757,927; 5,757,928; 5,757,929; 5,757,930; 5,757,931; 5,757,932; 5,757,933; 5,757,934; 5,757,935; 5,757,936; 5,757,937; 5,757,938; 5,757,939; 5,757,940; 5,757,941; 5,757,942; 5,757,943; 5,757,944; 5,757,945; 5,757,946; 5,757,947; 5,757,948; 5,757,949; 5,757,950; 5,757,951; 5,757,952; 5,757,953; 5,757,954; 5,757,955; 5,757,956; 5,757,957; 5,757,958; 5,757,959; 5,757,960; 5,757,961; 5,757,962; 5,757,963; 5,757,964; 5,757,965; 5,757,966; 5,757,967; 5,757,968; 5,757,969; 5,757,970; 5,757,971; 5,757,972; 5,757,973; 5,757,974; 5,757,975; 5,757,976; 5,757,977; 5,757,978; 5,757,979; 5,757,980; 5,757,981; 5,757,982; 5,757,983; 5,757,984; 5,757,985; 5,757,986; 5,757,987; 5,757,988; 5,757,989; 5,757,990; 5,757,991; 5,757,992; 5,757,993; 5,757,994; 5,757,995; 5,757,996; 5,757,997; 5,757,998; 5,757,999; 6,000,000; 6,000,001; 6,000,002; 6,000,003; 6,000,004; 6,000,005; 6,000,006; 6,000,007; 6,000,008; 6,000,009; 6,000,010; 6,000,011; 6,000,012; 6,000,013; 6,000,014; 6,000,015; 6,000,016; 6,000,017; 6,000,018; 6,000,019; 6,000,020; 6,000,021; 6,000,022; 6,000,023; 6,000,024; 6,000,025; 6,000,026; 6,000,027; 6,000,028; 6,000,029; 6,000,030; 6,000,031; 6,000,032; 6,000,033; 6,000,034; 6,000,035; 6,000,036; 6,000,037; 6,000,038; 6,000,039; 6,000,040; 6,000,041; 6,000,042; 6,000,043; 6,000,044; 6,000,045; 6,000,046; 6,000,047; 6,000,048; 6,000,049; 6,000,050; 6,000,051; 6,000,052; 6,000,053; 6,000,054; 6,000,055; 6,000,056; 6,000,057; 6,000,058; 6,000,059; 6,000,060; 6,000,061; 6,000,062; 6,000,063; 6,000,064; 6,000,065; 6,000,066; 6,000,067; 6,000,068; 6,000,069; 6,000,070; 6,000,071; 6,000,072; 6,000,073; 6,000,074; 6,000,075; 6,000,076; 6,000,077; 6,000,078; 6,000,079; 6,000,080; 6,000,081; 6,000,082; 6,000,083; 6,000,084; 6,000,085; 6,000,086; 6,000,087; 6,000,088; 6,000,089; 6,000,090; 6,000,091; 6,000,092; 6,000,093; 6,000,094; 6,000,095; 6,000,096; 6,000,097; 6,000,098; 6,000,099; 6,000,100; 6,000,101; 6,000,102; 6,000,103; 6,000,104; 6,000,105; 6,000,106; 6,000,107; 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APPROVAL:

The design, composition, construction and performance of the meter type(s) identified herein have been evaluated in accordance with regulations and specifications established under the Electricity and Gas Inspection Act. Approval is hereby granted accordingly pursuant to subsection 9(4) of the said Act.

The sealing, marking, installation, use and manner of use of meters are subject to inspection in accordance with regulations and specifications established under the Electricity and Gas Inspection Act. The sealing and marking requirements are set forth in specifications established pursuant to section 18 of the Electricity and Gas Inspection Regulations. Installation and use requirements are set forth in specifications established pursuant to section 12 of the Regulations. Verification of conformity is required in addition to this approval for all metering devices excepting instrument transformers. Inquiries regarding inspection and verification should be addressed to the local inspection office of Industry Canada.

Original copy signed by:

René Magnan, P. Eng
Director
Approval Services Laboratory

APPROBATION:

La conception, la composition, la construction et le rendement du(des) type(s) de compteurs identifié(s) ci-dessus, ayant fait l'objet d'une évaluation conformément au Règlement et aux prescriptions établis aux termes de la Loi sur l'inspection de l'électricité et du gaz, la présente approbation est accordée en application du paragraphe 9(4) de la dite Loi.

Le scellage, l'installation, le marquage, et l'utilisation des compteurs sont soumis à l'inspection conformément au Règlement et aux prescriptions établis aux termes de la Loi sur l'inspection de l'électricité et du gaz. Les exigences de scellage et de marquage sont définies dans les prescriptions établies en vertu de l'article 18 du Règlement sur l'inspection de l'électricité et du gaz. Les exigences d'installation et d'utilisation sont définies dans les prescriptions établies en vertu de l'article 12 du dit règlement. Sauf dans les cas des transformateurs de mesure, une vérification de conformité est requise. Toute question sur l'inspection et la vérification de conformité doit être adressée au bureau local d'Industrie Canada.

Copie authentique signée par:

René Magnan, ing.
Directeur
Laboratoire des services d'approbation

Date: **NOV 21 2000**

Web Site Address / Adresse du site internet:
<http://mc.ic.gc.ca>