



# SENSUS

METERING SYSTEMS

## DATA SHEET

## WATER METERS



**220C**



**405S**



**WP**

Sensus Metering Systems is a new name for one of the world's leading water metering solution providers with a 150-year history and a world-wide presence. The Group has evolved from the merger of a number of world renowned meter manufacturing companies in the USA, Germany, UK and France to offer unmatched choice, technology and quality for all water metering requirements.

Specifically the following products are offered from stock, though many other metering solutions for specialised applications are available to special order.

### **220C**

An ultra light and easy to handle piston type meter made from a super strong composite body that increases installation security. The tamper proof design assures accurate reading of water consumed and is resistant to water hammer.

### **405S**

A heavy-duty meter designed for water supply metering by utilities and other water providers who demand reliability, accuracy and consistency. The range is of dry dial multi-jet type with a protected magnetic transmission between the measuring element and the output display. The display is of 8-digit configuration reading to 1 litre and incorporates a rotating indicator disc to show the passage of water.

Special features to ensure reliability include a tubular pre-strainer, specially designed injection box for easy particle passage and sealed dry totalizer. Meter materials includes a brass body and precision moulded plastic metering and totalizer components with plastic totalizer casings for the 15 & 20 sizes and brass for the 30 & 40 sizes.

## WP Range

A specially designed heavy-duty meter for bulk flow applications where reliability, accuracy and long life are demanded. The meter is of woltman type with protected magnetic transmission, IP68 copper/glass register and the output display has a 6-digit m<sup>3</sup> readout with needle indicators for flow to 1litre. The meter body is constructed of heavy duty cast-iron with flanged connections and the measuring element and rotor of engineering plastic. All WP meters are pre-equipped for remote reading and data logging applications (flow rate, pressure, etc).

## PERFORMANCE DATA

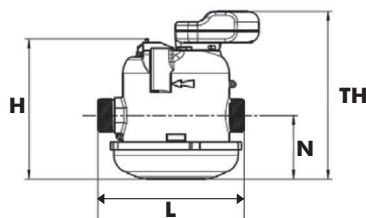
MODEL	220C		405S			WP		
	15	15	20	30	40	50	80	100
Nominal Size (mm)	15	15	20	30	40	50	80	100
Rated Flow (m <sup>3</sup> /hr)	2.5	1.5	2.5	6	10	15	40	60
Max Flow (m <sup>3</sup> /hr)	3	3	5	12	20	90	200	300
Min Flow (litre/hr)	15	30	50	120	200	300	500	800
Pressure Rating (Bar)	16	16	16	16	16	16	16	16
Max Operating Temp (°C)	40	40	40	40	40	50	50	50
Max Pipe Size	1"	1"	1¼"	1½"	2"	2½"	4"	6"
Pressure Loss at Rated flow (Bar)	0.18	0.18	0.19	0.24	0.22	0.01	0.02	0.03
Pressure Loss at Max flow (Bar)	0.6	0.6	0.8	0.85	0.6	0.2	0.3	0.5

## DIMENSIONS AND WEIGHTS

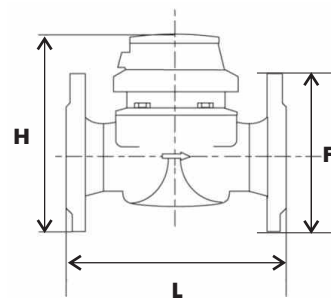
MODEL	220C		405S			WP		
	15	15	20	30	40	50	80	100
Nominal Size (mm)	15	15	20	30	40	50	80	100
Meter Thread (D <sub>1</sub> )	¾" BSP	¾" BSP	1" BSP	1½" BSP	2" BSP	N/A	N/A	N/A
Meter Thread (D <sub>2</sub> )*	½" BSP	½" BSP	¾" BSP	1¼" BSP	1½" BSP	N/A	N/A	N/A
Flange Size (F)	N/A	N/A	N/A	N/A	N/A	160	200	250
Length (L)	115	170	190	260	300	200	200	250
Height (H)	110	104	104	142	160	193	205	255
Width	105	82	82	102	136	160	200	250
Weight (kgs)	0.5	0.9	1.1	2.3	4.3	7.7	10.6	15

\* Threaded meters are supplied with union connectors

All dimensions in mm



220C



WP

© Davis & Shirliff 2014. Contents herein are not warranted. The right is reserved to amend specifications without notice. [www.davisandshirliff.com](http://www.davisandshirliff.com)

WS108D-10/12

**KENYA**  
**NAIROBI - HEAD OFFICE**  
 TEL: (+254 20) 6968 000  
 headoffice@dayliff.com  
**NAIROBI - WESTLANDS**  
 TEL: (+254 20) 44480116,  
 westlands@dayliff.com  
**NAIROBI - DOWNTOWN**  
 TEL: (+254 20) 340102  
 downtown@dayliff.com  
**NAIROBI - KAREN**  
 TEL: (+254 20) 3883513  
 karen@dayliff.com  
**THIKA**  
 TEL: (+254 67) 20084/5  
 thika@dayliff.com  
**ELDORET**  
 TEL: (+254 53) 2061906  
 eldoret@dayliff.com

**NAKURU**  
 TEL: (+254 51) 2213248  
 nairoffice@dayliff.com  
**KISUMU**  
 TEL: (+254 57) 2024763  
 ksmoffice@dayliff.com  
**KISII**  
 TEL: (+254 58) 2030949  
 kisi@dayliff.com  
**NAIVASHA**  
 TEL: (+254 50) 2030510  
 naivasha@dayliff.com  
**MACHAKOS**  
 TEL: (+254 40) 2021668  
 machakos@dayliff.com  
**MERU**  
 TEL: (+254 64) 3131033  
 meru@dayliff.com

**GARISSA**  
 TEL: (+254 46) 2102620  
 garissa@dayliff.com  
**KENYA COAST**  
**MOMBASA - Main Office**  
 TEL: (+254 20) 2040432  
 d&smasa@dayliff.com  
**MALINDI**  
 TEL: (+254 42) 2120425  
 midoffice@dayliff.com  
**DIANI**  
 TEL: (+254 40) 3202181  
 dianioffice@dayliff.com  
**LAMU**  
 TEL: (+254 20) 2651052/56  
 lamu@dayliff.com

**NYALI**  
 TEL: (+254 20) 2443357  
 d&snlyali@dayliff.com  
**VOI**  
 TEL: (+254 20) 2028284  
 voi@dayliff.com  
**ETHIOPIA**  
**ADDIS ABABA**  
 TEL: (+251 11) 5159341/44  
 d&sethiopia@dayliff.com  
**RWANDA**  
**KIGALI**  
 TEL: (+250 252) 504039  
 rwoffice@dayliff.com

**UGANDA**  
**KAMPALA - Main Office**  
 TEL: (+256 414) 346337/8  
 d&skampala@dayliff.com  
**KAMPALA - NAKESERO**  
 TEL: (+256 392) 734633  
 d&snakesero@dayliff.com  
**GULU**  
 TEL: (+256 471) 433041  
 d&sgulu@dayliff.com  
**MBARARA**  
 TEL: (+256 753) 940 080  
 d&smbarara@dayliff.com

**TANZANIA**  
**DAR ES SALAAM - Main Office**  
 TEL: (+255 22) 2112515/6  
 d&sdarressalaam@dayliff.com  
**DAR ES SALAAM - KARIAKOO**  
 TEL: (+255 22) 2184867  
 d&skariakoo@dayliff.com  
**ARUSHA**  
 TEL: (+255 27) 2547317/8  
 arusha@dayliff.com  
**ZANZIBAR**  
 TEL: (+255 24) 2234660/1  
 zanzibar@dayliff.com  
**MWANZA**  
 TEL: (+255 28) 2541971/2  
 d&smwanza@dayliff.com

**ZAMBIA**  
**LUSAKA - Main Office**  
 TEL: (+260 211) 288010/1  
 d&slusaka@dayliff.com  
**NDOLA**  
 TEL: (+260 212) 610936/7  
 d&sndola@dayliff.com  
**KITWE**  
 TEL: (+260 212) 221747/67  
 d&skitwe@dayliff.com  
**LIVINGSTONE**  
 TEL: (+260 213) 320002/234  
 d&slivingstone@dayliff.com  
**SOUTH SUDAN**  
**JUBA**  
 TEL: (+211 956) 397 070  
 juba@dayliff.com