





## Prüfbericht / *Test Report*

1175-15-WK-16-PB010

Erzeugnis / <i>Product</i>	SANGEAN Digital radio
Auftraggeber / <i>Customer</i>	MarketWatch Energy Saving Trust 21 Dartmouth Street London SW1H 9BP
Modell / <i>Type</i>	WFR-29C
Technische Daten / <i>Technical data</i>	Power requirements AC; (100-240) V; (50 / 60) Hz; max. 0.5 A; 12 W  Weitere Daten siehe Prüfbericht S. 2 ff. / <i>Further data see test report pp. 2 et seqq.</i>
Es wurde ein Gerät auf Übereinstimmung mit den folgenden Vorschriften geprüft /  <i>One samples of the product were tested of conformity with</i>	Verordnung (EG) Nr. 1275/2008 - Festlegung von Ökodesignanforderungen an den Stromverbrauch elektrischer und elektronischer Haushalts- und Bürogeräte im Bereitschafts- und im Aus- Zustand sowie im vernetzten Bereitschaftszustand; Anhang II Punkt 2a), und 2d) /  <i>Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment; Annex II point 2a) and 2d)</i>
Prüfört / <i>Test location</i>	SLG Prüf- und Zertifizierungs GmbH Burgstädter Straße 20 09232 Hartmannsdorf, Germany
Datum / <i>Date</i>	2016-01-26
Geprüft / <i>Tested</i>	Marcus Kirbach 
Bestätigt / <i>Approved</i>	Andreas Grundmann 

## **Measurement of Power Consumption in Accordance with Commission Regulations (EU) 801/2013 and (EC) 1275/2008**

<b>Test Sample</b>			
Brand name as identified on product	SANGEAN		
Model identification (type)	WFR-29C (+ Adaptor XKD-C1000/C12.0-12W)		
<del>Version</del> or <u>serial number</u>	56030216/2015/06 (+ Adaptor 1426/2015/06)		
Product description	Digital radio		
Regulatory reference	RL 1275/2008, RL 801/2013		
Name of applicant	Sangean		
Address of applicant	Ankerkade 20, 5928 PL Venlo, The Netherlands		
Name of test laboratory	SLG Prüf- und Zertifizierungs GmbH		
Address of test laboratory	Burgstädter Straße 20, 09232 Hartmannsdorf, Germany		
Test report number	1175-15-WK-16-PB010		
Sample indication	1175-15-W/047	Test date	2016-01-11
Prepared by	Marcus Kirbach	Approved by	Andreas Grundmann

<b>Test Results</b>			
Name of mode <sup>1)</sup>	OFF-Mode (non-networked; factory settings)	Test standard / measurement method	DIN EN 50564:2011; pt. 5.3.2 (sampling method with sampling interval 50 ms)
How is the mode selected or programmed	<ul style="list-style-type: none"> <li>Remove batteries</li> <li>Connect sample to the main power source</li> <li>Restore factory settings (SW version: ir-mmi-FS2026-0500-0082_V2.6.17c4.EX53330-1RC9; Radio ID: 002261EBB308; Radio system settings: Backlight &gt; Dim level &gt; Off*; Backlight &gt; Timeout &gt; 10 sec*               <ul style="list-style-type: none"> <li>External indications in OFF-Mode: Display OFF and Backlight OFF)</li> </ul> </li> <li>Run starting routine (Setup wizard):               <ul style="list-style-type: none"> <li>Time settings: Update OFF</li> <li>Network settings: "Keep Network connected?" → Choose NO* (symbol * indicates the current setting)</li> </ul> </li> <li>Switch OFF by power button in Active-Mode DAB radio (other Active-Modes result in similar power level)</li> </ul>		
Sequence of events to reach the mode where the product automatically change mode (power management function)	<ul style="list-style-type: none"> <li>Automatic OFF-Mode can be set due to functions SLEEP TIMER (OFF by factory settings) and INACTIVE STANDBY (OFF by factory settings) in all Active-Modes (Manual WFR-29C; No ID; No year, Pages 74-75)</li> </ul>		
Any notes regarding the operation of the product	<ul style="list-style-type: none"> <li>General: Networked equipment; Display YES; Light sensors NO; Battery compartment YES</li> <li>Characterization of power fluctuations: Not cyclic</li> <li>Evaluation time: 40 minutes at end of measurement routine</li> <li>Stability criterion: Stable power consumption according DIN EN 50564:2011; pt. 5.3.2 (mode not cyclic)</li> </ul>		
Result with measurement uncertainty ( $k=2$ )	<b>(1.13 ± 0.03) W</b>		
MCR <sup>2)</sup>	35,6	Admissible measurement uncertainty <sup>2)</sup> ( $k=2$ )	0.07 W
Power limit applied	EC 1275/2008, Annex II, 2 a)		0.50 W
<b>Verdict</b>	<b>FAIL</b>		
If applicable, technical justification of inappropriateness for intended use	-		

1) Definition according Commission Regulations EC 1275/2008 and EC 801/2013

2) Calculation according DIN EN 50564:2011; pt. 4.4.1

Test Conditions	
Ambient temperature	(23 ± 2) °C
Test voltage	(230.2 ± 0.2) V
Test frequency	(49.97 ± 0.01) Hz
Total harmonic voltage distortion of supply system	(0.06 ± 0.05) %
Information and documentation on the instrumentation, set-up and circuits used for electrical testing	In accordance with DIN EN 50564:2011; pt. 4.3; 4.4; 5.3.1

Standards Used and Traceability					
Object	Type	Inv. no.	Calibrated by	Calibration certificate	Due date
Precision power meter	LMG 95	1841	D-K-18095-01-00	DAkkS: 200613/2015-09	2016-09-22